



2018 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION
ACCRUALS RELATED TO ELECTRIC PLANT
AS OF DECEMBER 31, 2018

Prepared by:



Gannett Fleming

*Excellence Delivered **As Promised***

DUKE ENERGY CAROLINA

Charlotte, North Carolina

2018 DEPRECIATION STUDY

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ACCUMULATIONS RELATED TO ELECTRIC PLANT
AS OF DECEMBER 31, 2018

GANNETT FLEMING VALUATION AND RATE CONSULTANTS, LLC
Harrisburg, Pennsylvania



Excellence Delivered **As Promised**

August 9, 2019

Duke Energy Carolina
550 S. Tryon Street
Charlotte, NC 28202

Attention: David L. Doss, Jr.
Director Asset Accounting

Ladies and Gentlemen:

Pursuant to your request, we have conducted a depreciation study related to the electric plant of Duke Energy Carolina as of December 31, 2018. The attached report presents a description of the methods used in the estimation of depreciation, the summary of annual depreciation accrual rates, the statistical support for the life and net salvage estimates and the detailed tabulations of annual depreciation.

Respectfully submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC

A handwritten signature in blue ink, appearing to read "John J. Spanos".
JOHN J. SPANOS
President

JJS:mle

065220.000



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DUKE ENERGY CAROLINA

DEPRECIATION STUDY

EXECUTIVE SUMMARY

Pursuant to Duke Energy Carolina's ("DEC" or "Company") request, Gannett Fleming Valuation and Rate Consultants, LLC ("Gannett Fleming") conducted a depreciation study related to the electric plant as of December 31, 2018. The purpose of this study was to determine the annual depreciation accrual rates and amounts for book and ratemaking purposes.

The depreciation rates are based on the straight line method using the average service life ("ASL") procedure and were applied on a remaining life basis. The calculations were based on attained ages and estimated average service life, and forecasted net salvage characteristics for each depreciable group of assets.

The depreciation study results in an overall increase in depreciation expense. This is primarily related to production plant accounts as there have been large capital additions and changes to life expectancies. There is an increase in transmission accounts due to slightly shorter service lives for some asset classes. There is a net decrease in depreciation expense for distribution and general plant accounts, which is primarily the result of longer service lives. The increase in depreciation expense for production plant accounts is the result of capital additions and the construction of new combined cycle facilities. These changes produce the most appropriate depreciation rates for the Company's production plant accounts, however, result in a necessary increase in depreciation expense in order to ensure the recovery of the Company's investments.

Gannett Fleming recommends the calculated annual depreciation accrual rates set forth herein apply specifically to electric plant in service as of December 31, 2018 as summarized by Table 1 of the study. Supporting analysis and calculations are provided within the study.

The study results set forth an annual depreciation expense of \$1,227.6 million when applied to depreciable plant balances as of December 31, 2018. The results are summarized at the functional level as follows:

SUMMARY OF ORIGINAL COST, ACCRUAL RATES AND AMOUNTS

FUNCTION	ORIGINAL COST AS OF DECEMBER 31, 2018	PROPOSED RATE	PROPOSED EXPENSE
Steam Production Plant	\$8,352,937,230.01	4.40	\$ 367,923,551
Nuclear Production Plant	8,518,494,363.36	3.60	306,886,916
Hydraulic Production Plant	2,134,189,181.14	2.00	42,784,187
Other Production Plant	3,153,387,533.61	3.21	101,217,613
Transmission Plant	3,871,037,930.07	2.23	86,253,267
Distribution Plant	12,022,021,972.94	2.28	273,848,655
General Plant	1,150,068,086.19	5.27	60,633,994
Land Rights	199,557,773.76	0.98	1,960,710
General Plant Reserve Amortization	-	-	(13,907,418)
Total Depreciable Plant	\$39,401,694,071.08	3.12	\$1,227,601,475

PART I. INTRODUCTION

DUKE ENERGY CAROLINA DEPRECIATION STUDY

PART I. INTRODUCTION

SCOPE

This report sets forth the results of the depreciation study for Duke Energy Carolina ("Company"), as applied to specific electric plant in service as of December 31, 2018. The rates and amounts are based on the straight line remaining life method of depreciation. This report also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to current electric plant in service.

The service life and net salvage estimates resulting from the study were based on informed judgment which incorporated analyses of historical plant retirement data as recorded through 2018; the net salvage analyses of historical plant retirement data recorded through 2018; a review of Company practice and outlook as they relate to plant operation and retirement; and consideration of current practice in the electric industry, including knowledge of service lives and net salvage estimates used for other electric companies.

PLAN OF REPORT

Part I, Introduction, contains statements with respect to the plan of the report, and the basis of the study. Part II, Estimation of Survivor Curves, presents descriptions of the considerations and the methods used in the service life study. Part III, Service Life Considerations, presents the factors and judgment utilized in the average service life analysis. Part IV, Net Salvage Considerations, presents the judgment utilized for the net salvage study. Part V, Calculation of Annual and Accrued Depreciation, describes the procedures used in the calculation of group depreciation. Part VI, Results of Study,

presents a summary by depreciable group of annual depreciation accrual rates and amounts, as well as composite remaining lives. Part VII, Service Life Statistics presents the statistical analysis of service life estimates, Part VIII, Net Salvage Statistics sets forth the statistical indications of net salvage percents, and Part IX, Detailed Depreciation Calculations presents the detailed tabulations of annual depreciation.

BASIS OF THE STUDY

Depreciation

Depreciation, in public utility regulation, is the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of utility plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are wear and tear, deterioration, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and the requirements of public authorities.

Depreciation, as used in accounting, is a method of distributing fixed capital costs, less net salvage, over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing electric utility service. Normally, the period of time over which the fixed capital cost is allocated to the cost of service is equal to the period of time over which an item renders service, that is, the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the straight-line method of depreciation.

For all accounts, the annual depreciation was calculated by the straight line method using the average service life procedure and the remaining life basis. The calculated remaining lives and annual depreciation accrual rates were based on

attained ages of plant in service and the estimated service life and salvage characteristics of each depreciable group. Amortization accounting or vintage pooling is proposed for most general plant accounts.

The straight line method, average service life procedure is a commonly used depreciation calculation procedure that has been widely accepted in jurisdictions throughout North America. Gannett Fleming recommends its continued use.

Service Life and Net Salvage Estimates

The service life and net salvage estimates used in the depreciation calculations were based on informed judgment which incorporated a review of management's plans, policies and outlook, a general knowledge of the electric utility industry, and comparisons of the service life and net salvage estimates from our studies of other electric utilities. The use of survivor curves to reflect the expected dispersion of retirement provides a consistent method of estimating depreciation for utility property. Iowa type survivor curves were used to depict the estimated survivor curves for the plant accounts. For steam, nuclear, hydraulic and other production plants, the life span technique was used. In this technique, the date of final retirement was estimated for each unit, and the estimated survivor curves applied to each vintage were truncated at ages coinciding with the date of final retirement.

The procedure for estimating service lives consisted of compiling historical data for the plant accounts or depreciable groups, analyzing this history through the use of widely accepted techniques, and forecasting the survivor characteristics for each depreciable group on the basis of interpretations of the historical data analyses and the probable future. The combination of the historical experience and the estimated future yielded estimated survivor curves from which the average service lives were derived.

The estimates of net salvage by account incorporated a review of experienced costs of removal and salvage related to plant retirements, and consideration of trends exhibited by the historical data. Each component of net salvage, i.e., cost of removal and salvage, was stated in dollars and as a percent of retirement.

An understanding of the function of the plant and information with respect to the reasons for past retirements and the expected causes of future retirements was obtained through discussions with operating and management personnel. The supplemental information obtained in this manner was considered in the interpretation and extrapolation of the statistical analyses.

**PART II. ESTIMATION OF
SURVIVOR CURVES**

PART II. ESTIMATION OF SURVIVOR CURVES

The calculation of annual depreciation based on the straight line method requires the estimation of survivor curves and the selection of group depreciation procedures. The estimation of survivor curves is discussed below and the development of net salvage is discussed in later sections of this report.

SURVIVOR CURVES

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages.

The survivor curve graphically depicts the amount of property existing at each age throughout the life of an original group. From the survivor curve, the average life of the group, the remaining life expectancy, the probable life, and the frequency curve can be calculated. In Figure 1, a typical smooth survivor curve and the derived curves are illustrated. The average life is obtained by calculating the area under the survivor curve, from age zero to the maximum age, and dividing this area by the ordinate at age zero. The remaining life expectancy at any age can be calculated by obtaining the area under the curve, from the observation age to the maximum age, and dividing this area by the percent surviving at the observation age. For example, in Figure 1, the remaining life at age 30 is equal to the crosshatched area under the survivor curve divided by 29.5 percent surviving at age 30. The probable life at any age is developed by adding the age and remaining life. If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve presents the number of units retired in each age interval. It is derived by obtaining the differences between the amount of property surviving at the beginning and at the end of each interval.

This study has incorporated the use of Iowa curves developed from a retirement rate analysis of historical retirement history. A discussion of the concepts of survivor curves and of the development of survivor curves using the retirement rate method is presented below.

Iowa Type Curves

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as the Iowa type curves. There are four families in the Iowa system, labeled in accordance with the location of the modes of the retirements in relationship to the average life and the relative height of the modes. The left moded curves, presented in Figure 2, are those in which the greatest frequency of retirement occurs to the left of, or prior to, average service life. The symmetrical moded curves, presented in Figure 3, are those in which the greatest frequency of retirement occurs at average service life. The right moded curves, presented in Figure 4, are those in which the greatest frequency occurs to the right of, or after, average service life. The origin moded curves, presented in Figure 5, are those in which the greatest frequency of retirement occurs at the origin, or immediately after age zero. The letter designation of each family of curves (L, S, R or O) represents the location of the mode of the associated frequency curve with respect to the average service life. The numbers represent the relative heights of the modes of the frequency curves within each family.

The Iowa curves were developed at the Iowa State College Engineering Experiment Station through an extensive process of observation and classification of the ages at which industrial property had been retired. A report of the study which resulted in the classification of property survivor characteristics into 18 type curves, which constitute three of the four families, was published in 1935 in the form of the Experiment Station's Bulletin 125. These curve types have also been presented in subsequent Experiment Station bulletins and in the text, "Engineering Valuation and

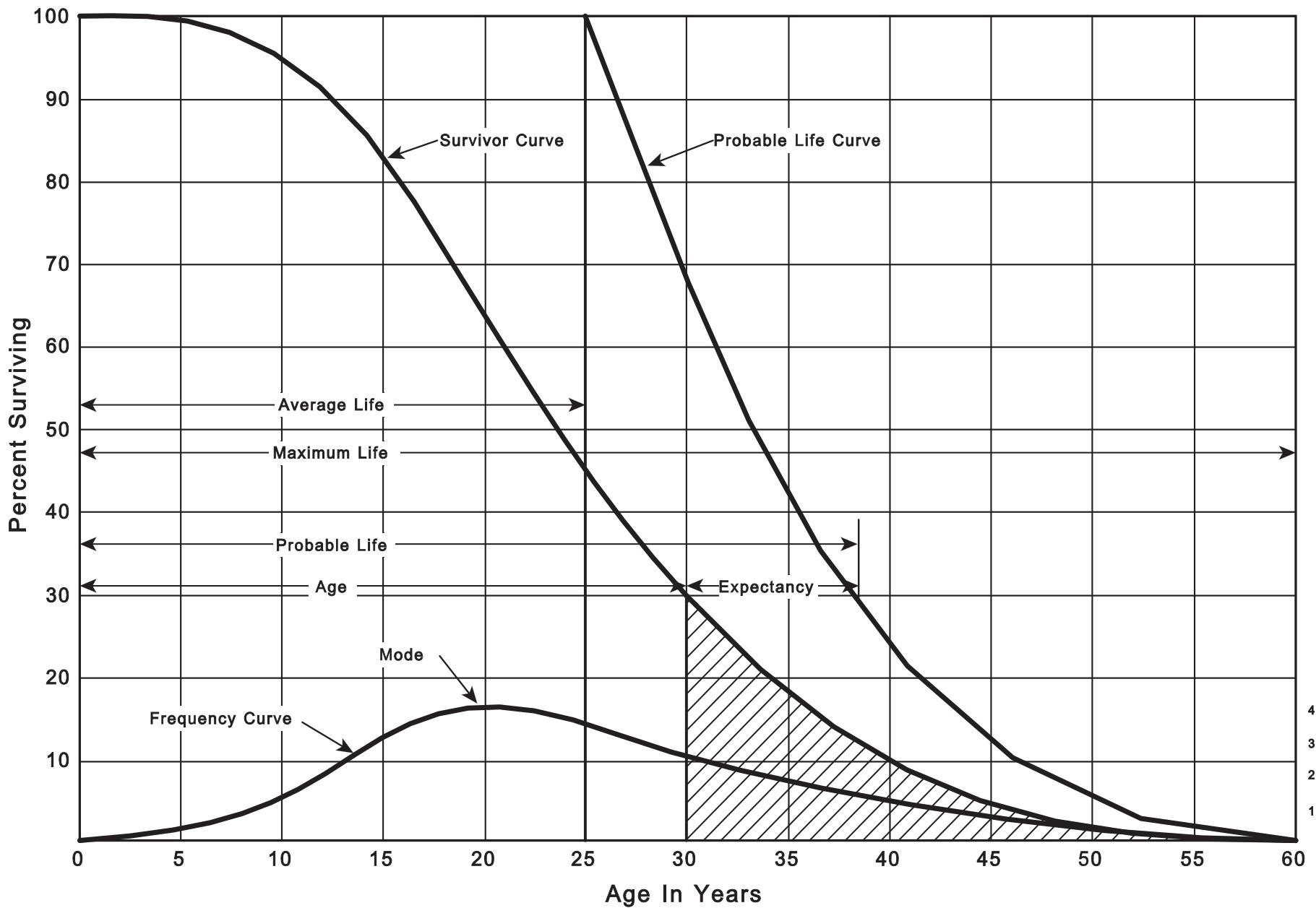


Figure 1. A Typical Survivor Curve and Derived Curves

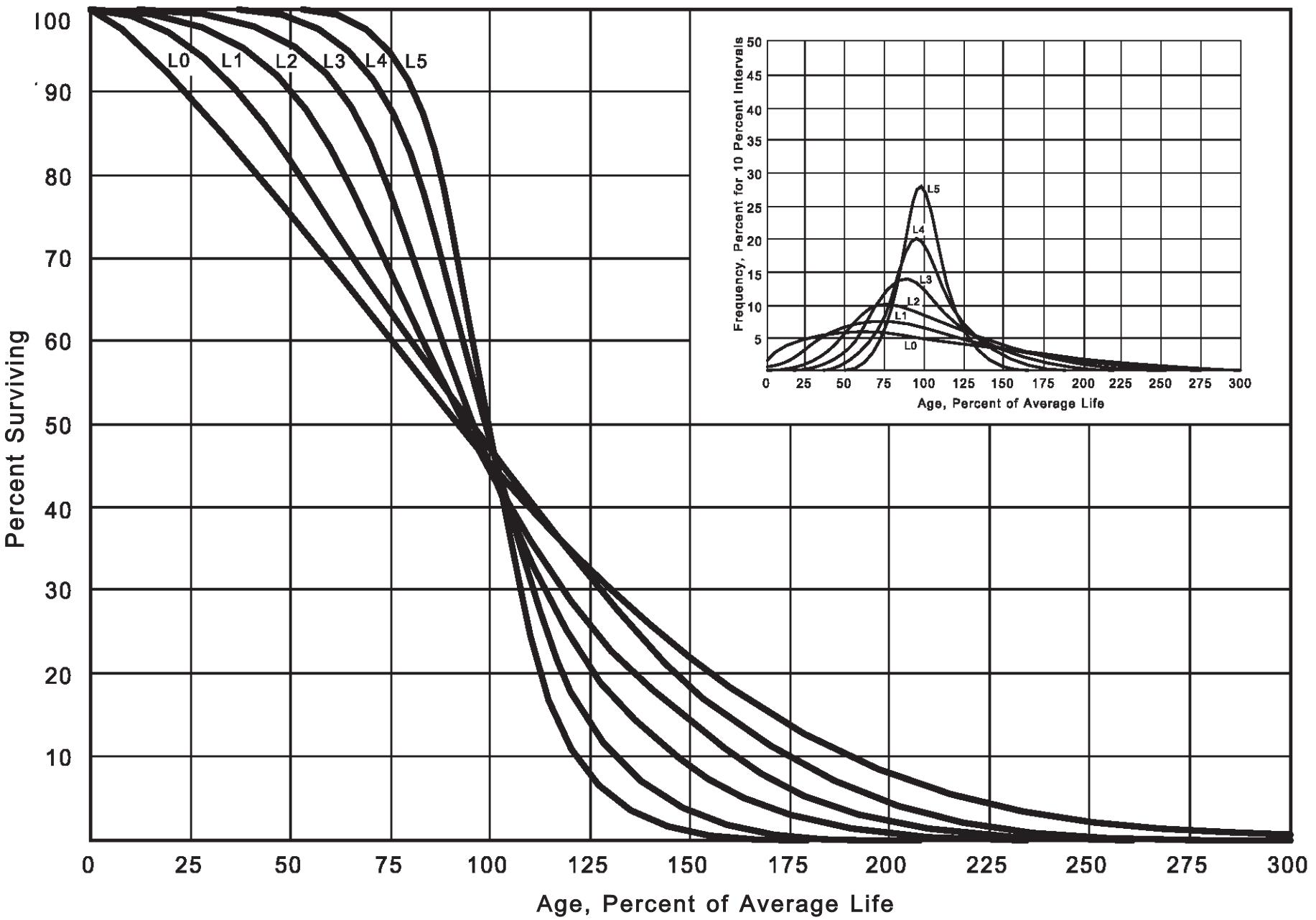


Figure 2. Left Modal or "L" Iowa Type Survivor Curves

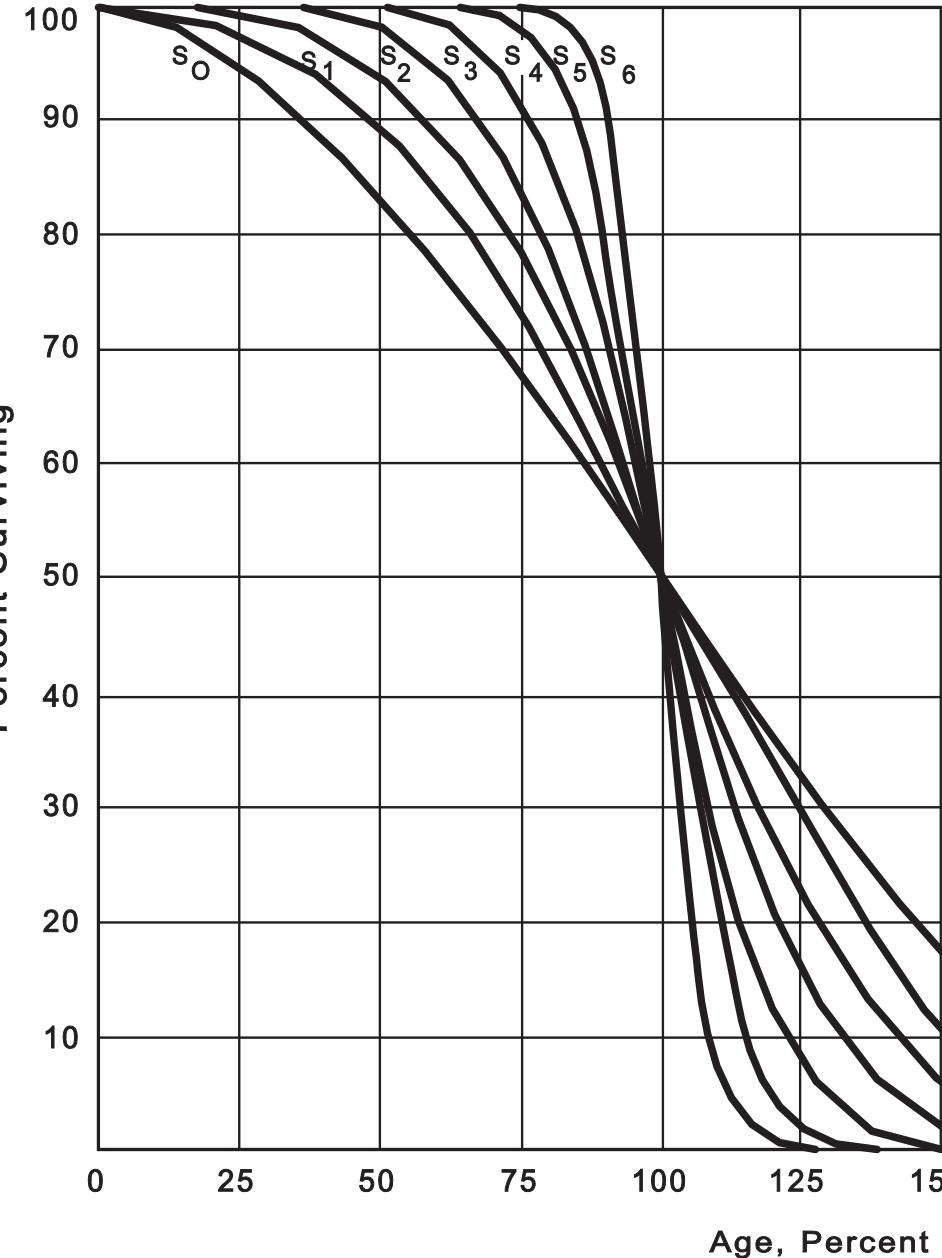
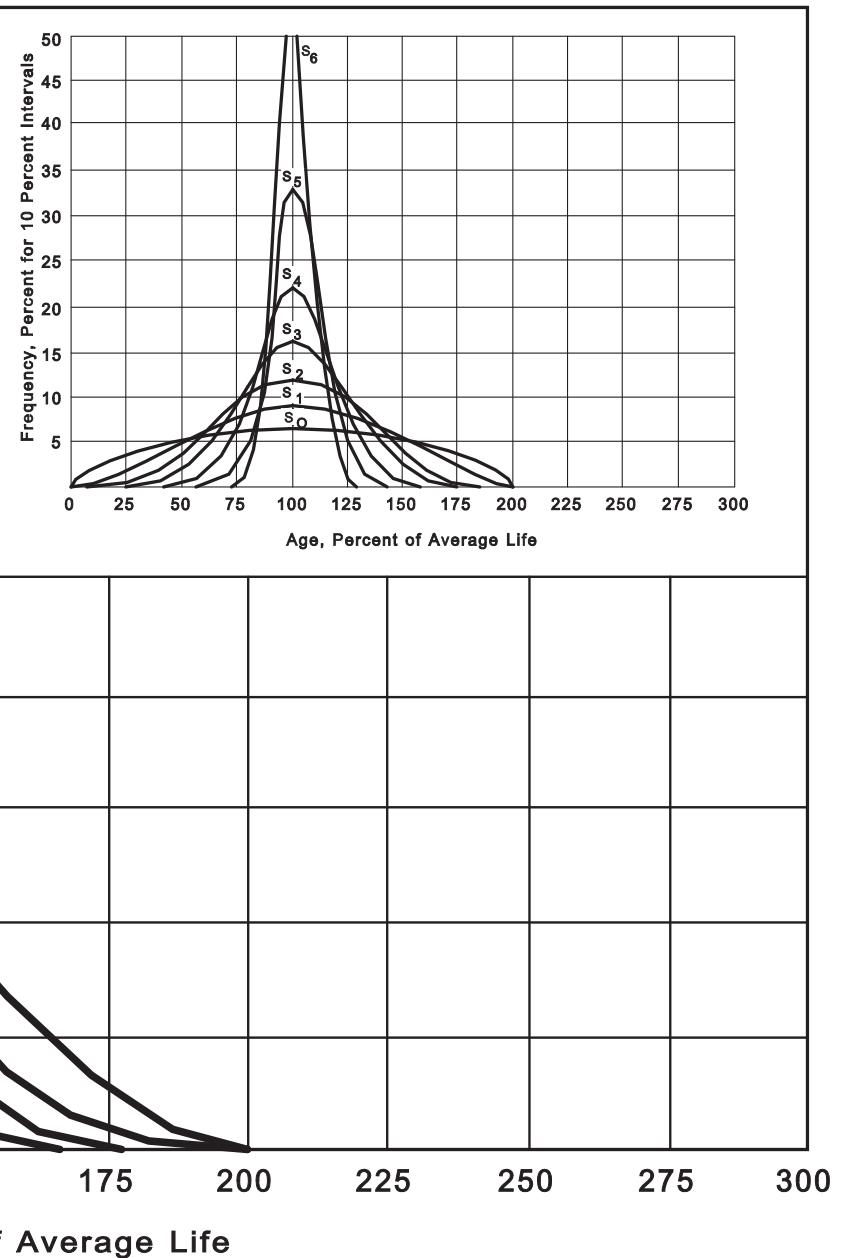


Figure 3. Symmetrical or "S" Iowa Type Survivor Curves

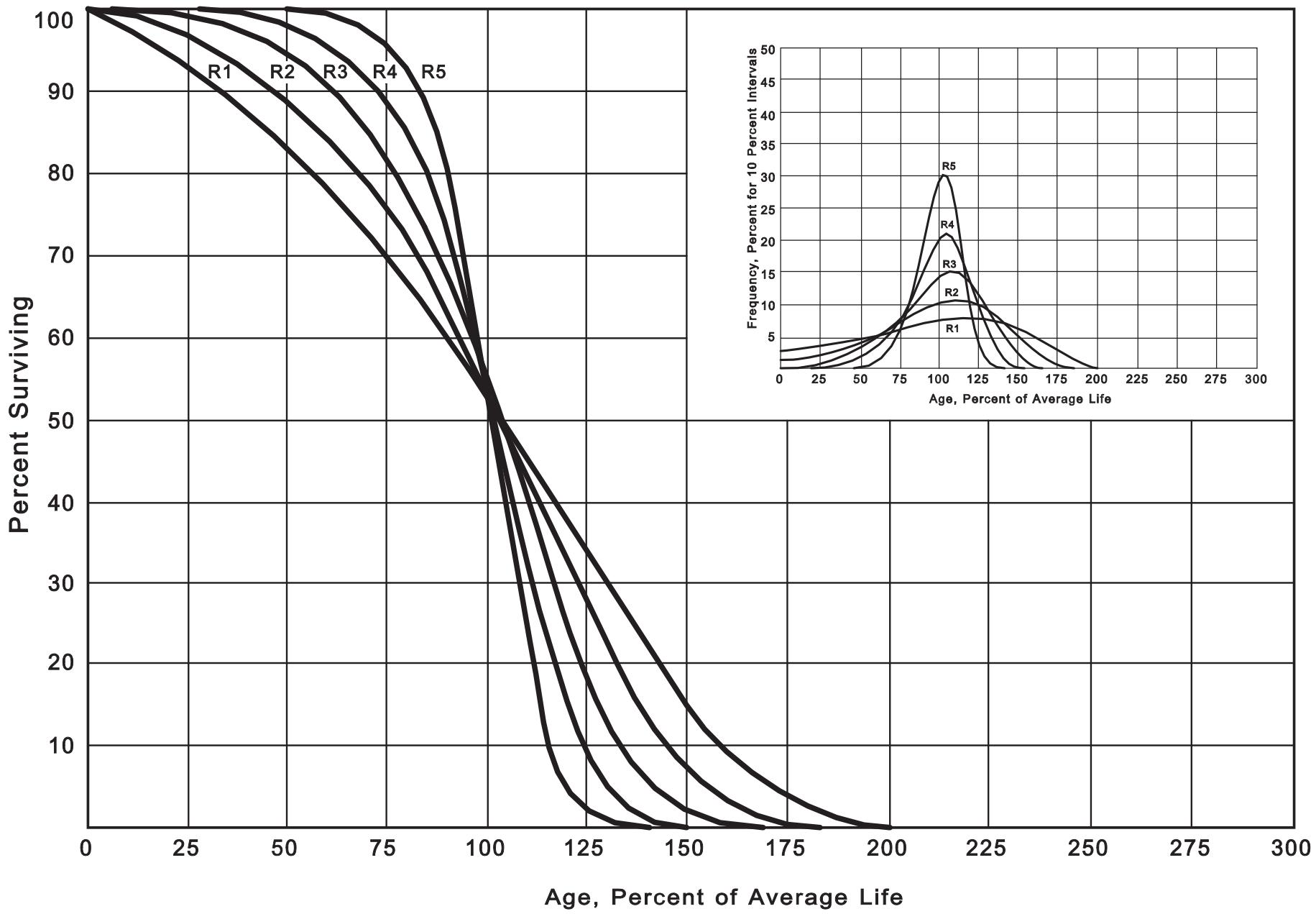


Figure 4. Right Modal or "R" Iowa Type Survivor Curves

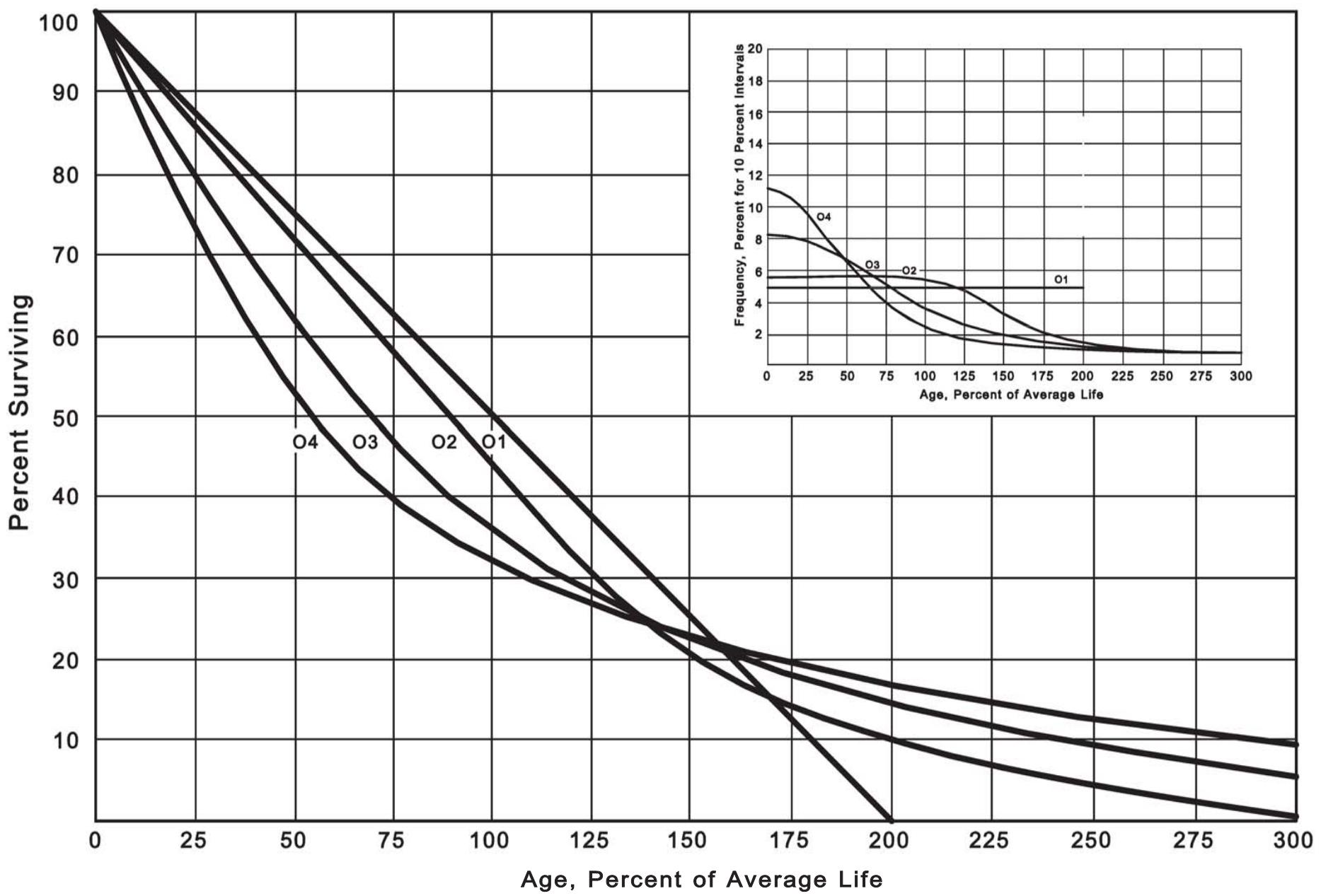


Figure 5. Origin Modal or "O" Iowa Type Survivor Curves

Depreciation."¹ In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student submitted a thesis presenting his development of the fourth family consisting of the four O type survivor curves.

Retirement Rate Method of Analysis

The retirement rate method is an actuarial method of deriving survivor curves using the average rates at which property of each age group is retired. The method relates to property groups for which aged accounting experience is available and is the method used to develop the original stub survivor curves in this study. The method (also known as the annual rate method) is illustrated through the use of an example in the following text, and is also explained in several publications, including "Statistical Analyses of Industrial Property Retirements,"² "Engineering Valuation and Depreciation,"³ and "Depreciation Systems."⁴

The average rate of retirement used in the calculation of the percent surviving for the survivor curve (life table) requires two sets of data: first, the property retired during a period of observation, identified by the property's age at retirement; and second, the property exposed to retirement at the beginning of the age intervals during the same period. The period of observation is referred to as the experience band, and the band of years which represent the installation dates of the property exposed to retirement during the experience band is referred to as the placement band. An example of the calculations used in the development of a life table follows. The example includes schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

¹Marston, Anson, Robley Winfrey and Jean C. Hempstead. Engineering Valuation and Depreciation, 2nd Edition. New York, McGraw-Hill Book Company. 1953.

²Winfrey, Robley, Statistical Analyses of Industrial Property Retirements. Iowa State College Engineering Experiment Station, Bulletin 125. 1935..

³Marston, Anson, Robley Winfrey, and Jean C. Hempstead, Supra Note 1.

⁴Wolf, Frank K. and W. Chester Fitch. Depreciation Systems. Iowa State University Press. 1994.

Schedules of Annual Transactions in Plant Records

The property group used to illustrate the retirement rate method is observed for the experience band 2009-2018 during which there were placements during the years 2004-2018. In order to illustrate the summation of the aged data by age interval, the data were compiled in the manner presented in Schedules 1 and 2 on pages II-11 and II-12. In Schedule 1, the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the dollars invested in 2004 were retired in 2009. The \$10,000 retirement occurred during the age interval between 4½ and 5½ years on the basis that approximately one-half of the amount of property was installed prior to and subsequent to July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval 4½-5½ is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2009 retirements of 2004 installations and ending with the 2018 retirements of the 2013 installations. Thus, the total amount of 143 for age interval 4½-5½ equals the sum of:

$$10 + 12 + 13 + 11 + 13 + 13 + 15 + 17 + 19 + 20.$$

**SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2009-2018
SUMMARIZED BY AGE INTERVAL**

Experience Band 2009-2018

Placement Band 2004-2018

Placed (1)	Retirements, Thousands of Dollars						Age Interval (13)				
	2009 (2)	2010 (3)	2011 (4)	2012 (5)	2013 (6)	2014 (7)		2015 (8)	2016 (9)	2017 (10)	2018 (11)
2004	10	11	12	13	14	16	23	24	25	26	26
2005	11	12	13	15	16	18	20	21	22	19	44
2006	11	12	13	14	16	17	19	21	22	18	64
2007	8	9	10	11	11	13	14	15	16	17	83
2008	9	10	11	12	13	14	16	17	19	20	93
2009	4	9	10	11	12	13	14	15	16	20	105
2010	5	11	12	13	14	15	15	16	18	20	113
2011	6	12	13	15	16	17	17	19	19	19	124
2012	6	13	15	16	17	17	19	19	19	19	131
2013	7	14	14	16	17	17	19	19	20	20	143
2014	8	8	18	20	20	17	19	22	23	23	146
2015			9	20	20	20	22	22	25	25	150
2016				11	11	11	11	23	25	25	151
2017											153
2018											0
Total	<u>53</u>	<u>68</u>	<u>86</u>	<u>106</u>	<u>128</u>	<u>157</u>	<u>196</u>	<u>231</u>	<u>273</u>	<u>308</u>	<u>1,606</u>

**SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2009-2018
SUMMARIZED BY AGE INTERVAL**

Experience Band 2009-2018

Placement Band 2004-2018

Year Placed (1)	Acquisitions, Transfers and Sales, Thousands of Dollars							Total During Age Interval (12)	Age Interval (13)
	2009 (2)	2010 (3)	2011 (4)	2012 (5)	2013 (6)	2014 (7)	2015 (8)		
2004	-	-	-	-	-	60 ^a	-	-	-
2005	-	-	-	-	-	-	-	-	12½-13½
2006	-	-	-	-	-	-	-	-	11½-12½
2007	-	-	-	-	-	-	(5) ^b	-	10½-11½
2008	-	-	-	-	-	-	6 ^a	-	9½-10½
2009	-	-	-	-	-	-	-	(5)	8½-9½
2010	-	-	-	-	-	-	-	6	7½-8½
2011	-	-	-	-	-	-	-	-	6½-7½
2012	-	-	-	-	-	(12) ^b	-	-	5½-6½
2013	-	-	-	-	-	-	22 ^a	-	4½-5½
2014	-	-	-	-	-	(19) ^b	-	-	3½-4½
2015	-	-	-	-	-	-	-	10	2½-3½
2016	-	-	-	-	-	-	-	-	1½-2½
2017	-	-	-	-	-	-	-	-	½-1½
2018	-	-	-	-	-	-	-	-	0-½
Total	-	-	-	-	-	60	(30)	22	(50)

^a Transfer Affecting Exposures at Beginning of Year

^b Transfer Affecting Exposures at End of Year

^c Sale with Continued Use
Parentheses Denote Credit Amount.

In Schedule 2, other transactions which affect the group are recorded in a similar manner. The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements, but are used in developing the exposures at the beginning of each age interval.

Schedule of Plant Exposed to Retirement

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 on page II-14. The surviving plant at the beginning of each year from 2009 through 2018 is recorded by year in the portion of the table headed "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or additions are obtained by adding or subtracting the net entries shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the beginning of the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2014 are calculated in the following manner:

Exposures at age 0	= amount of addition	= \$750,000
Exposures at age $\frac{1}{2}$	= \$750,000 - \$ 8,000	= \$742,000
Exposures at age $1\frac{1}{2}$	= \$742,000 - \$18,000	= \$724,000
Exposures at age $2\frac{1}{2}$	= \$724,000 - \$20,000 - \$19,000	= \$685,000
Exposures at age $3\frac{1}{2}$	= \$685,000 - \$22,000	= \$663,000

**SCHEDULE 3. PLANT EXPOSED TO RETIREMENT
JANUARY 1 OF EACH YEAR 2009-2018
SUMMARIZED BY AGE INTERVAL**

Experience Band 2009-2018

Placement Band 2004-2018

Year Placed	Exposures, Thousands of Dollars							Beginning of Age Interval	Age Interval
	2009	2010	2011	2012	2013	2014	2015		
2004	255	245	234	222	209	195	239	192	167
2005	279	268	256	243	228	212	194	174	131
2006	307	296	284	271	257	241	224	205	184
2007	338	330	321	311	300	289	276	262	242
2008	376	367	357	346	334	321	307	297	280
2009	420 ^a	416	407	397	386	374	361	347	332
2010	460 ^a	455	444	432	419	405	390	374	356
2011	510 ^a	504	492	479	464	448	431	412	392
2012	580 ^a	574	561	546	530	501	482	463	443
2013	660 ^a	653	639	623	608	585	563	542	522
2014	750 ^a	742	724	706	688	663	642	622	602
2015	850 ^a	841	821	799	778	756	735	714	693
2016		960 ^a	949	926	904	881	858	835	812
2017									
2018									
Total	1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852
									7,799
									44,780

^aAdditions during the year

For the entire experience band 2009-2018, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval 4½-5½, is obtained by summing:

$$255 + 268 + 284 + 311 + 334 + 374 + 405 + 448 + 501 + 609.$$

Original Life Table

The original life table, illustrated in Schedule 4 on page II-16, is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100% at age zero and successively multiplying the percent surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age 5½ are as follows:

Percent surviving at age 4½	=	88.15
Exposures at age 4½	=	3,789,000
Retirements from age 4½ to 5½	=	143,000
Retirement Ratio	=	$143,000 \div 3,789,000 = 0.0377$
Survivor Ratio	=	$1.000 - 0.0377 = 0.9623$
Percent surviving at age 5½	=	$(88.15) \times (0.9623) = 84.83$

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless.

**SCHEDULE 4. ORIGINAL LIFE TABLE
CALCULATED BY THE RETIREMENT RATE METHOD**

Experience Band 2009-2018

Placement Band 2004-2018

(Exposure and Retirement Amounts are in Thousands of Dollars)

Age at Beginning of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Beginning of Age Interval
(1)	(2)	(3)	(4)	(5)	(6)
0.0	7,490	80	0.0107	0.9893	100.00
0.5	6,579	153	0.0233	0.9767	98.93
1.5	5,719	151	0.0264	0.9736	96.62
2.5	4,955	150	0.0303	0.9697	94.07
3.5	4,332	146	0.0337	0.9663	91.22
4.5	3,789	143	0.0377	0.9623	88.15
5.5	3,057	131	0.0429	0.9571	84.83
6.5	2,463	124	0.0503	0.9497	81.19
7.5	1,952	113	0.0579	0.9421	77.11
8.5	1,503	105	0.0699	0.9301	72.65
9.5	1,097	93	0.0848	0.9152	67.57
10.5	823	83	0.1009	0.8991	61.84
11.5	531	64	0.1205	0.8795	55.60
12.5	323	44	0.1362	0.8638	48.90
13.5	<u>167</u>	<u>26</u>	0.1557	0.8443	42.24
					35.66
Total	<u>44,780</u>	<u>1,606</u>			

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 Divided by Column 2.

Column 5 = 1.0000 Minus Column 4.

Column 6 = Column 5 Multiplied by Column 6 as of the Preceding Age Interval.

The original survivor curve is plotted from the original life table (column 6, Schedule 4). When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.

Smoothing the Original Survivor Curve

The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100% to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

The Iowa type curves are used in this study to smooth those original stub curves which are expressed as percents surviving at ages in years. Each original survivor curve was compared to the Iowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group.

FIGURE 6. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES

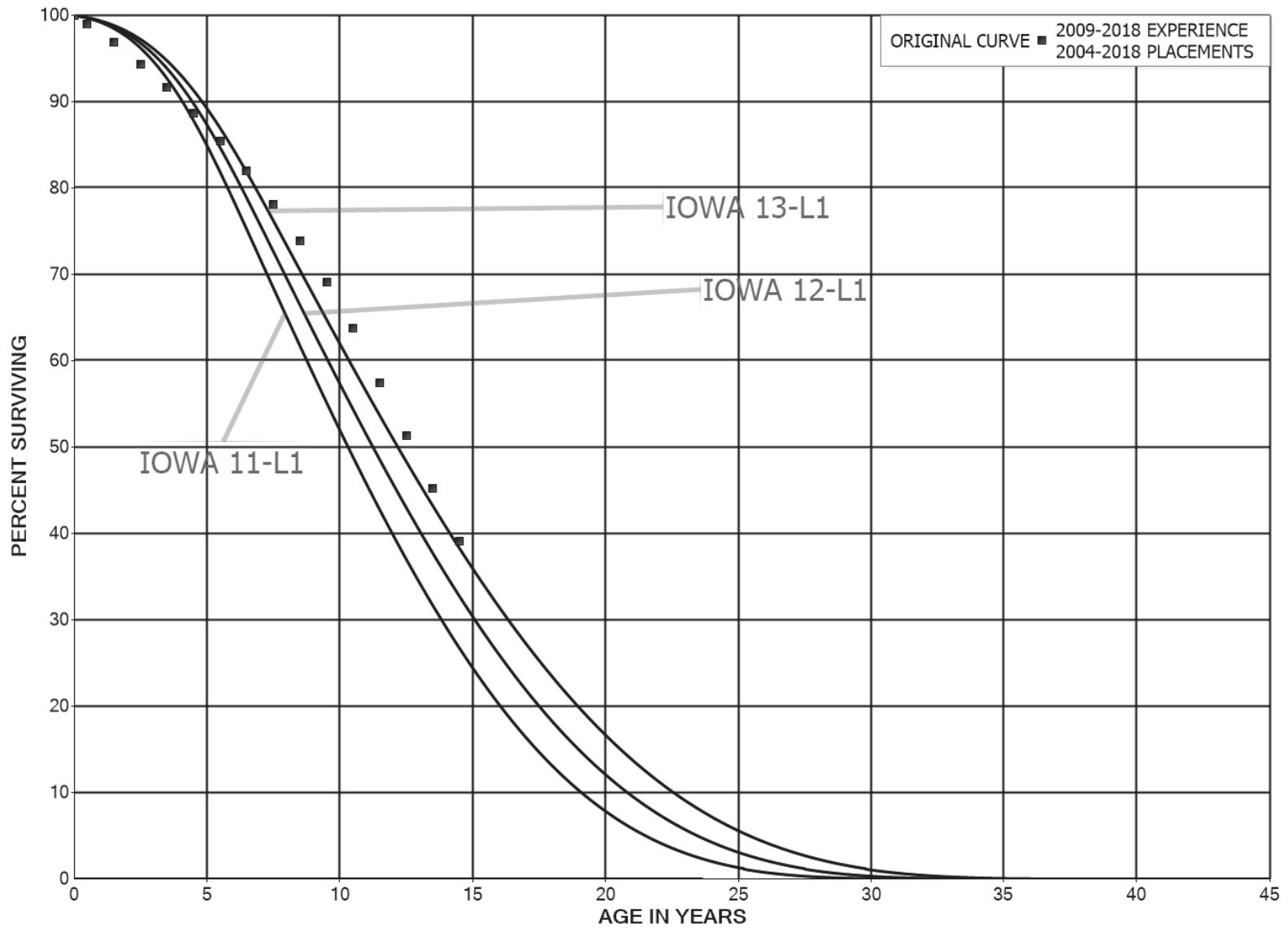


FIGURE 7. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN S0 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES

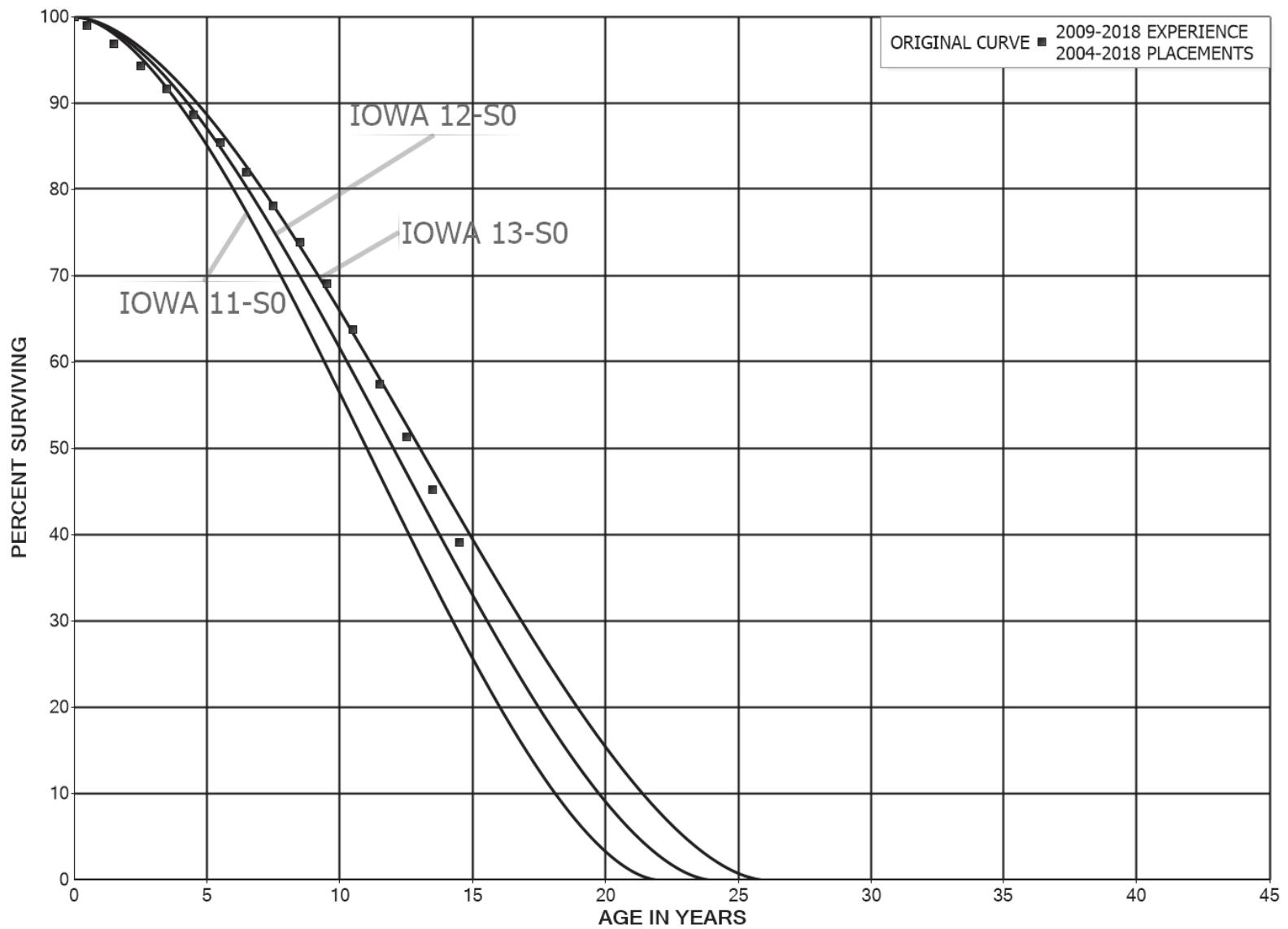


FIGURE 8. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN R1 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES

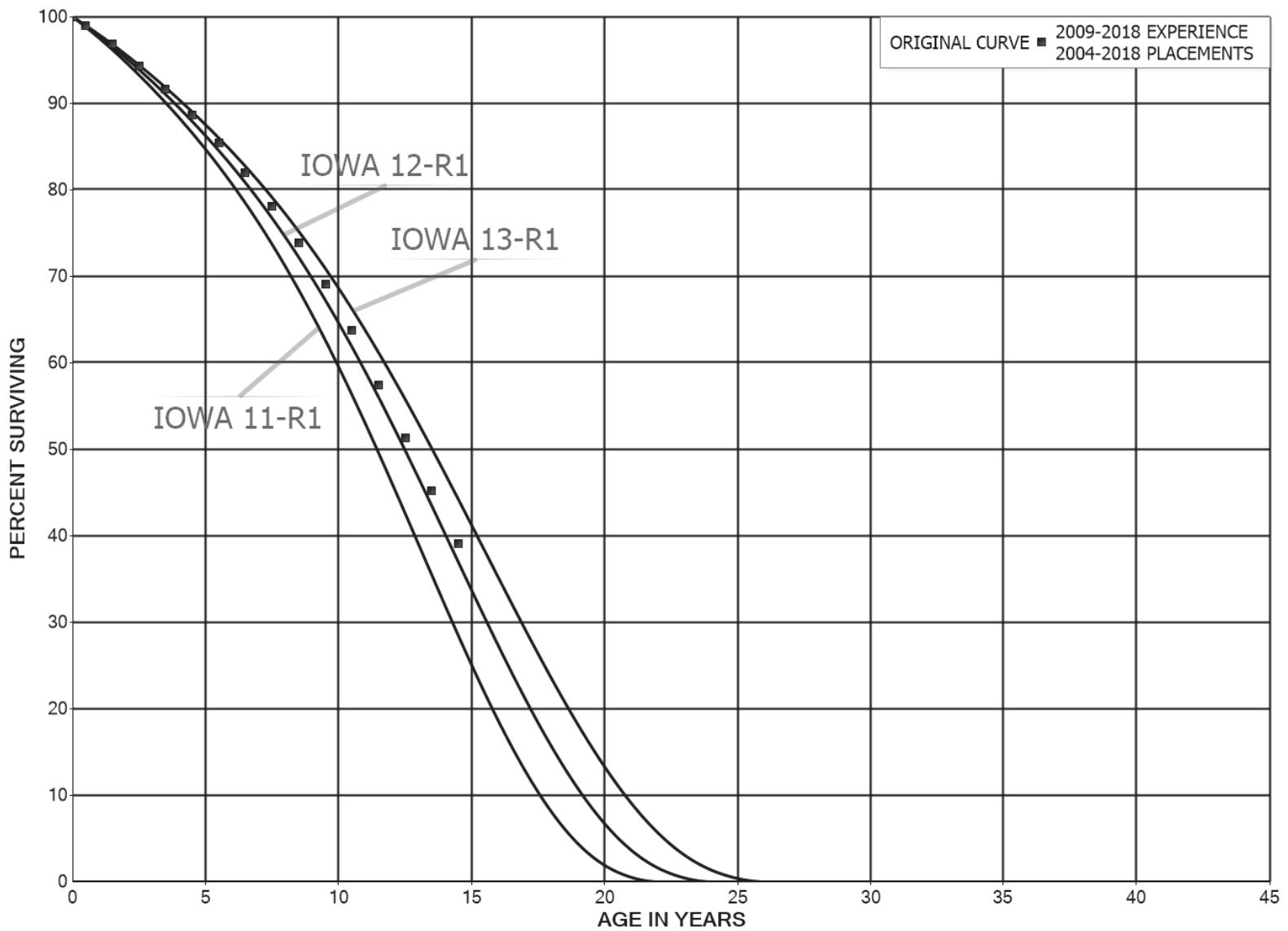
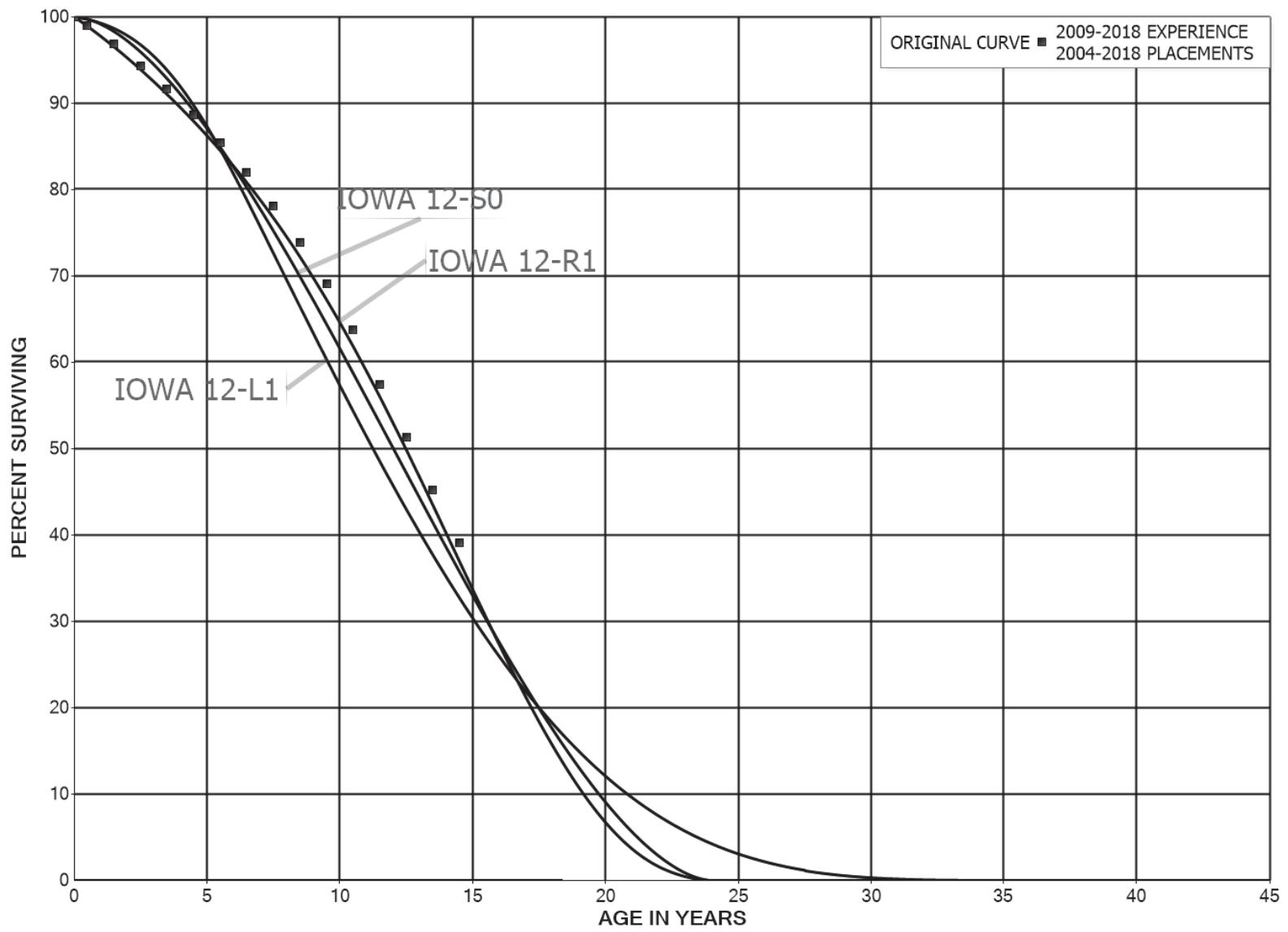


FIGURE 9. ILLUSTRATION OF THE MATCHING OF AN ORIGINAL SURVIVOR CURVE WITH AN L1, S0 AND R1 IOWA TYPE CURVE
ORIGINAL AND SMOOTH SURVIVOR CURVES



PART III. SERVICE LIFE CONSIDERATIONS

PART III. SERVICE LIFE CONSIDERATIONS

FIELD TRIPS

In order to be familiar with the operation of the Company and observe representative portions of the plant, field trips have been conducted. A general understanding of the function of the plant and information with respect to the reasons for past retirements and the expected future causes of retirements are obtained during field trips. This knowledge and information were incorporated in the interpretation and extrapolation of the statistical analyses.

The following is a list of the locations visited during the recent field trips.

April 1-2, 2019

Buster Boyd Substation
Riverbend Switching Station
Stonewater Tie-in
Marshall Substation
Marshall Steam Generating Station
Lee Combined Cycle Generating Station

January 11-13, 2017

Mill Creek Generating Station
Ninety-Nine Islands Hydro Plant
W.S. Lee Combined Cycle Plant
W.S. Lee Steam Plant
Keowee Hydro Plant
Jocassee Pump Storage Plant
Tennessee Creek Hydro Plant
Wolf Creek Dam
Cedar Cliff Hydro Plant
Thorpe Hydro Plant
Bridgewater Hydro Plant

December 7, 2016

Dan River Combined Cycle Plant

June 13-15, 2012

Buck Combined Cycle Generating Station
Rockingham Combustion Turbine Station
Belews Creek Generating Station
Lewisville Operations Center
Peace Haven Road Substation

Shallowford Substation
Bridgewater Hydro Plant
Marshall Steam Generating Station
Lincolntown Tie Substation
Cliffside Steam Generating Station
Allen Steam Generating Station

March 3-5, 2009

Allen Steam Generating Station
Marshall Steam Generating Station
Belews Creek Generating Station
McGuire Nuclear Station
Cowans Ford Hydro Plant
Lincoln Combustion Turbine Station
Mountain Island Hydro Plant
Riverbend Steam Generating Station
Mill Creek Combustion Turbine Station
Oconee Nuclear Station
Bad Creek Pump Storage
Jocassee Hydro Plant
Cliffside Steam Generating Station

October 27-29, 2003

McGuire Nuclear Station
Allen Steam Generating Station
Mountain Island Hydro Plant
Riverbend Steam Generating Station
Lincoln Combustion Turbine Station
Marshall Steam Generating Station
Cowans Ford Hydro Plant
Bad Creek Pump Storage
Oconee Nuclear Station

SERVICE LIFE ANALYSIS

The service life estimates were based on judgment which considered a number of factors. The primary factors were the statistical analyses of data, current Company policies and outlook as determined during conversations with management; and the survivor curve estimates from previous studies of this company and other electric utility companies.

For 41 plant accounts and subaccounts for which survivor curves were estimated, the statistical analyses using the retirement rate method resulted in good to excellent indications of the survivor patterns experienced. These accounts represent 86 percent of depreciable plant. Generally, the information external to the statistics led to minimal or no significant departure from the indicated survivor curves for the accounts listed below. The statistical support for the service life estimates is presented in the section beginning on page VII-2.

STEAM PRODUCTION PLANT

- 311.00 Structures and Improvements
- 312.00 Boiler Plant Equipment
- 314.00 Turbogenerator Units
- 315.00 Accessory Electric Equipment

NUCLEAR PLANT

- 321.00 Structures and Improvements
- 322.00 Reactor Plant Equipment
- 323.00 Turbogenerators
- 324.00 Accessory Electric Equipment

HYDRAULIC PLANT

- 331.00 Structures and Improvements
- 332.00 Reservoirs, Dams and Waterways
- 333.00 Water Wheels, Turbines and Generators
- 335.00 Miscellaneous Power Plant Equipment
- 336.00 Roads, Railroads and Bridges

OTHER PRODUCTION PLANT

- 343.00 Prime Movers
- 343.10 Prime Movers – Rotable Parts
- 344.00 Generators
- 345.00 Accessory Electric Equipment
- 346.00 Miscellaneous Power Plant Equipment

TRANSMISSION PLANT

- 352.00 Structures and Improvements
- 353.00 Station Equipment
- 355.00 Poles and Fixtures

DISTRIBUTION PLANT

- 361.00 Structures and Improvements
- 362.00 Station Equipment
- 364.00 Poles, Towers and Fixtures
- 365.00 Overhead Conductors and Devices
- 367.00 Underground Conductors and Devices
- 368.00 Line Transformers
- 370.00 Metering Equipment
- 370.01 Meters
- 371.00 Installations on Customers' Premises
- 373.00 Street Lighting and Signal Systems

GENERAL PLANT

- 390.00 Structures and Improvements
- 392.10 Transportation Equipment - Passenger Cars and Station Wagons
- 392.11 Transportation Equipment - Light Trucks
- 392.12 Transportation Equipment - Medium Trucks
- 392.15 Transportation Equipment - Heavy Trucks/Power Equipped
- 392.16 Transportation Equipment - Tractors
- 392.18 Transportation Equipment - Trailers
- 396.04 Power Operated Equipment - Mobile Cranes
- 396.07 Power Operated Equipment - Miscellaneous Non-Highway Equipment
- 396.00 Power Operated Equipment - Miscellaneous Equipment

Account 365.00, Overhead Conductors and Devices, is used to illustrate the manner in which the study was conducted for the groups in the preceding list. Aged plant accounting data have been compiled for the years 1960 through 2018. These data have been coded in the course of the Company's normal record keeping according to account or property group, type of transaction, year in which the transaction took place, and year in which the electric plant was placed in service. The retirements, other plant transactions, and plant additions were analyzed by the retirement rate method.

The survivor curve estimate is based on the statistical indications for the periods 1960 through 2018 and 1989 through 2018. The Iowa 52-R0.5 is a reasonable fit of the stub original survivor curve for Overhead Conductors and Devices. The 52-year service life is within the typical service life range of 45 to 55 years for overhead conductor. The

52-year life reflects the Company's plans to replace overhead conductor at the time the equipment fails or requires a load upgrade due to growth in the service territory.

For Account 364, Poles, Towers and Fixtures, the survivor curve estimate is the 50-R2. The statistical analysis for this account provides a good indication of service life through age 56. The 50-R2 estimate is within the industry range and is consistent with the outlook for this account. The current estimate for this account is 49-R2. Based on these considerations, the 50-R2 survivor curve is the most reasonable estimate for this account.

For Account 367, Underground Conductors and Devices, the survivor curve estimate of 55-R3 is based on the statistical indications for the periods 1960 through 2018 and 1989 through 2018. The Iowa 55-R3 is a good fit of the stub curve for Underground Conductors and Devices through age 58 and is consistent with the outlook for this account. The 55-year service life is within the typical service life range of 40 to 60 years for underground conductor. The current estimate for this account is 54-R3. Based on these considerations, the 55-R3 survivor curve is the most reasonable estimate for this account.

Similar studies were performed for the remaining plant accounts. Each of the judgments represented a consideration of statistical analyses of aged plant activity, management's outlook for the future, and the typical range of lives used by other electric companies.

Life Span Estimates

Inasmuch as production plant consists of large generating units, the life span technique was employed in conjunction with the use of interim survivor curves which reflect interim retirements that occur prior to the ultimate retirement of the major unit. An interim survivor curve was estimated for each plant account, inasmuch as the rate of interim retirements differs from account to account. The interim survivor curves

estimated for steam, nuclear, hydraulic and other production plant were based on the retirement rate method of life analysis which incorporated experienced aged retirements for the period 1960 through 2018 for steam; 1978 through 2018 for nuclear; 1960 through 2018 for hydraulic; and 1971 through 2018 for other production.

The depreciable life span estimates for power generating stations were the result of considering experienced life spans of similar generating units, the age of surviving units, general operating characteristics of the units, major refurbishments, discussions with management personnel concerning the probable long-term outlook for the units, and the estimate of the operating partner, if applicable.

The depreciable life span estimate for most steam, base-load units is 36 to 69 years, which is within the typical range of life spans for such units. The life span for nuclear units is approximately 60 years, and is consistent with the license dates for each unit. The depreciable life span for hydraulic units is 67 to 148 years which corresponds to the license or relicense dates. A life span of 40-41 years was estimated for the combustion turbines. These life span estimates are typical for combustion turbines which are used primarily as peaking units. The combined cycle units are relatively new units with a commonly used 40-year life span estimate. The large solar facilities have recently been constructed and will have a 25-year life span.

A summary of the major year in service, depreciable life span and depreciable life date for each power production unit follows:

<u>Depreciable Group</u>	<u>Major Year in Service</u>	<u>Probable Retirement Year</u>	<u>Life Span</u>
Steam Production Plant			
Marshall	1965	2034	69
Belews Creek	1974	2037	63
Cliffside 5 (J.E. Rogers)	1972	2026	54

<u>Depreciable Group</u>	<u>Major Year in Service</u>	<u>Probable Retirement Year</u>	<u>Life Span</u>
Cliffside 6 (J.E. Rogers)	2012	2048	36
Lee	1951,1990	2030	79,40
Allen	1957	2024	67
Nuclear Production			
Oconee	1973	2034	61
McGuire	1981	2043	62
Catawba	1985	2043	58
Hydro Production			
Cowans Ford	1963	2055	92
Bad Creek	1991	2058	67
Jocassee	1973	2046	73
Keowee	1971	2046	75
Fishing Creek	1916,1997	2055	139,58
Cedar Creek	1927,1999	2055	128,56
Bridgewater	1919,1987	2055	136,68
Gaston Shoals	1917,1993	2036	119,43
Lookout Shoals	1915,1995	2055	140,60
Mountain Island	1923,2005	2055	132,50
99 Islands	1910	2036	126
Oxford	1928,1997	2055	127,58
Rhodhiss	1925, 2000	2055	130,55
Tuxedo	1920,1992	2041	121,49
Wateree	1919,1996	2055	136,59
Wylie	1925,1997	2055	130,58
Great Falls	1907,1993	2055	148,62
Dearborn	1923,1996	2055	132,59
NPL Bear Creek	1954	2041	87
NPL Bryson	1942	2041	99
NPL Cedar Cliff	1952	2041	89
NPL Franklin	1933	2041	108
NPL Mission	1929	2041	112
NPL Nantahala	1942	2042	100
NPL Queens Creek	1949	2032	83
NPL Tennessee Creek	1955	2041	86
NPL Thorpe	1943	2041	98
NPL Tuckasegee	1951	2041	90

<u>Depreciable Group</u>	<u>Major Year in Service</u>	<u>Probable Retirement Year</u>	<u>Life Span</u>
Other Production Plant			
Lincoln	1995	2035	40
Lee	2007	2047	40
Mill Creek	2002	2043	41
Rockingham	2000	2040	40
Buck - Combined Cycle	2011	2051	40
Dan River – Combined Cycle	2012	2052	40
Lee-Combined Cycle	2018	2058	40
Woodleaf – Solar	2018	2043	25
Monroe – Solar	2017	2042	25
Mocksville – Solar	2016	2041	25

The selected amortization periods for other General Plant accounts are described in the section "Calculated Annual and Accrued Amortization."

PART IV. NET SALVAGE CONSIDERATIONS

PART IV. NET SALVAGE CONSIDERATIONS

SALVAGE ANALYSIS

The estimates of net salvage by account were based in part on historical data compiled through 2018. Cost of removal and salvage were expressed as percents of the original cost of plant retired, both on annual and three-year moving average bases. The most recent five-year average also was calculated for consideration. The net salvage estimates by account are expressed as a percent of the original cost of plant retired.

Net Salvage Considerations

The estimates of future net salvage are expressed as percentages of surviving plant in service, i.e., all future retirements. In cases in which removal costs are expected to exceed salvage receipts, a negative net salvage percentage is estimated. The net salvage estimates were based on judgment which incorporated analyses of historical cost of removal and salvage data, expectations with respect to future removal requirements and markets for retired equipment and materials.

The analyses of historical cost of removal and salvage data are presented in the section titled "Net Salvage Statistics" for the plant accounts for which the net salvage estimate relied partially on those analyses.

Statistical analyses of historical data for the periods 2003 through 2018 for all plant accounts were analyzed. The analyses contributed significantly toward the net salvage estimates for 45 plant accounts, representing 89 percent of the depreciable plant, as follows:

STEAM PRODUCTION PLANT

311.00	Structures and Improvements
312.00	Boiler Plant Equipment
314.00	Turbogenerator Units
315.00	Accessory Electric Equipment

316.00 Miscellaneous Power Plant Equipment

NUCLEAR PRODUCTION PLANT

321.00 Structures and Improvements
322.00 Reactor Plant Equipment
323.00 Turbogenerator Units
324.00 Accessory Electric Equipment
325.00 Miscellaneous Plant Equipment

HYDRAULIC PRODUCTION PLANT

331.00 Structures and Improvements
332.00 Reservoirs, Dams and Waterway
333.00 Water Wheels, Turbines and Generators
334.00 Accessory Electric Equipment
335.00 Miscellaneous Plant Equipment

OTHER PRODUCTION PLANT

341.00 Structures and Improvements
345.00 Accessory Electric Equipment
346.00 Miscellaneous Power Plant Equipment

TRANSMISSION PLANT

352.00 Structures and Improvements
353.00 Station Equipment
355.00 Poles and Fixtures
356.00 Overhead Conductors and Devices

DISTRIBUTION PLANT

361.00 Structures and Improvements
362.00 Station Equipment
364.00 Poles, Towers and Fixtures
365.00 Overhead Conductors and Devices
366.00 Underground Conduit
367.00 Underground Conductors and Devices
368.00 Line Transformers
369.00 Services
370.00 Metering Equipment
370.01 Meters
371.00 Installations on Customers' Premises
373.00 Street Lighting and Signal Systems

GENERAL PLANT

390.00 Structures and Improvements
392.10 Transportation Equipment – Passenger Cars and Station Wagons

392.11	Transportation Equipment – Light Trucks
392.12	Transportation Equipment – Medium Trucks
392.13	Transportation Equipment – Heavy Trucks
392.15	Transportation Equipment – Heavy Trucks/Power Equipped
392.16	Transportation Equipment – Tractors
392.18	Transportation Equipment – Trailers
396.04	Power Operated Equipment – Mobile Cranes
396.07	Power Operated Equipment – Miscellaneous Non-Highway Equipment
396.00	Power Operated Equipment – Miscellaneous Equipment

Account 365.00, Overhead Conductors and Devices, is used to illustrate the manner in which the study was conducted for the groups in the preceding list. Net salvage data for the period 2003 through 2018 were analyzed for this account. The data include cost of removal, gross salvage and net salvage amounts and each of these amounts is expressed as a percent of the original cost of regular retirements. Three-year moving averages for the 2003-2005 through 2016-2018 periods were computed to smooth the annual amounts.

Cost of removal was relatively consistent during the sixteen-year period with the exception of 2011 through 2013. The primary cause of the lower levels of cost of removal in recent years has been the overall larger projects which have some economies of labor per retirement and some timing issues with recording all costs. Cost of removal for the most recent five years averaged 30 percent.

Gross salvage has varied throughout the period with high levels in 2009, 2010 and 2017 due to current practices of reuse. The most recent five-year average of 3 percent gross salvage is in line with overall future expectations of moderate levels of salvage.

The net salvage percent based on the overall period 2003 through 2018 is negative 23 percent net salvage and based on the most recent five-year period is

negative 27 percent. The typical range of estimates made by other electric companies for Overhead Conductors and Devices is negative 20 to negative 40 percent. The net salvage estimate for overhead conductor is negative 25 percent, is within the range of other estimates and reflects the levels of net salvage experienced over the last sixteen years.

The net salvage estimate for Account 353, Station Equipment, is negative 20 percent. Net salvage data for the period 2003 through 2018 were analyzed for this account. Cost of removal has been high in most years for the period studied. There has been some gross salvage, but it has been less than cost of removal and has only averaged approximately 1 percent throughout the period. Gross salvage for 2018 is low. For the period 2003 through 2018, net salvage has averaged negative 19 percent. More recent years have experienced higher levels of retirements and have also experienced increased costs of removal except for 2018 which has some delays in recording. The most recent five year average is negative 10 percent, however, cost of removal for 2018 has not fully been booked.

Estimates of negative 20 percent or less are common in the industry for this account, although there has been a trend to more negative net salvage in this account in recent years and some utilities do have estimates that are even more negative. While the trend, aside from 2018, for this account does support a more negative net salvage estimate than negative 20 percent, the negative 20 percent estimate reflects the expectations of the Company for this account as well as the experience of others in the industry.

The overall net salvage estimates for the Company's production facilities, for which the life span method is used, is based on estimates of both final net salvage and interim net salvage. Final net salvage is the net salvage experienced at the end of a production plant's life span. Interim net salvage is the net salvage experienced for

interim retirements that occur prior to the final retirement of the plant. The final net salvage estimates in the study were based on a decommissioning study performed by Burns & McDonnell. These studies excluded ash pond closure activities. The interim net salvage estimates were based in part on an analysis of historical interim retirement and net salvage data. Based on informed judgment that incorporated these interim net salvage analyses for each plant account, an interim net salvage estimate of negative 14 percent was used for steam plant accounts; negative 9 percent for nuclear plant accounts; negative 22 percent for hydraulic plant accounts; and a negative 6 percent estimate was used for all other production plant accounts. The one exception is for Account 343.10, Prime Movers – Rotable Parts units for the combined cycle units. This account includes the hot gas path components of the combustion turbines for these plants. An interim net salvage estimate of 40 percent is recommended, consistent with the historical data and outlook for these assets.

The interim survivor curve estimates for each account and production facility were used to calculate the percentage of plant expected to be retired as interim retirements and final retirements. These are shown on Table 1 in the Net Salvage Statistics section on page VIII-2. These percentages were used to determine the weighted net salvage estimate for each account and production facility based on the interim and final net salvage estimates. These calculations, as well as the estimated final net salvage and interim net salvage percents, are shown on Table 2 of the Net Salvage Statistics section on page VIII-3. Table 3 sets forth the calculation for establishing the terminal net salvage percent for each location which is utilized in Table 2.

The net salvage percents for the remaining accounts were based on judgment incorporating factors such as the statistical net salvage analysis, general knowledge of the property studied, and estimates of previous studies of this and other electric utilities.

Generally, the net salvage estimates for remaining general plant accounts were zero percent, consistent with amortization accounting.

**PART V. CALCULATION OF ANNUAL AND
ACCRUED DEPRECIATION**

PART V. CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

GROUP DEPRECIATION PROCEDURES

A group procedure for depreciation is appropriate when considering more than a single item of property. Normally the items within a group do not have identical service lives, but have lives that are dispersed over a range of time. There are two primary group procedures, namely, average service life and equal life group. In the average service life procedure, the rate of annual depreciation is based on the average life or average remaining life of the group, and this rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

Single Unit of Property

The calculation of straight line depreciation for a single unit of property is straightforward. For example, if a \$1,000 unit of property attains an age of four years and has a life expectancy of six years, the annual accrual over the total life is:

$$\frac{\$1,000}{(4 + 6)} = \$100 \text{ per year.}$$

The accrued depreciation is:

$$\$1,000 \left(1 - \frac{6}{10}\right) = \$400.$$

Remaining Life Annual Accruals

For the purpose of calculating remaining life accruals as of December 31, 2018, the depreciation reserve for each plant account is allocated among vintages in proportion to the calculated accrued depreciation for the account. Explanations of remaining life accruals and calculated accrued depreciation follow. The detailed calculations as of December 31, 2018, are set forth in the Results of Study section of the report.

Average Service Life Procedure

In the average service life procedure, the remaining life annual accrual for each vintage is determined by dividing future book accruals (original cost less book reserve) by the average remaining life of the vintage. The average remaining life is a directly weighted average derived from the estimated future survivor curve in accordance with the average service life procedure.

The calculated accrued depreciation for each depreciable property group represents that portion of the depreciable cost of the group which would not be allocated to expense through future depreciation accruals if current forecasts of life characteristics are used as the basis for such accruals. The accrued depreciation calculation consists of applying an appropriate ratio to the surviving original cost of each vintage of each account based upon the attained age and service life. The straight line accrued depreciation ratios are calculated as follows for the average service life procedure:

$$\text{Ratio} = 1 - \frac{\text{Average Remaining Life}}{\text{Average Service Life}}.$$

CALCULATION OF ANNUAL AND ACCRUED AMORTIZATION

Amortization, as defined in the Uniform System of Accounts, is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment which incorporated a consideration of the period during which the assets will render most of their service, the amortization periods and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

Amortization accounting is appropriate for certain General Plant accounts that represent numerous units of property, but a very small portion of total depreciable electric plant in service. The accounts and their amortization periods are as follows:

	<u>Account</u>	<u>Amortization Period, Years</u>
391,	Office Furniture and Equipment	
	Furniture and Equipment	15
	EDP	8
393,	Stores Equipment	20
394,	Tools, Shop and Garage Equipment	20
395,	Laboratory Equipment	15
397,	Communication Equipment	10
398,	Miscellaneous Equipment	20

For the purpose of calculating annual amortization amounts as of December 31, 2018, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The book reserve assigned to vintages with an age greater

than the amortization period is equal to the vintage's original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage's age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

PART VI. RESULTS OF STUDY

PART VI. RESULTS OF STUDY

QUALIFICATION OF RESULTS

The calculated annual and accrued depreciation are the principal results of the study. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage and for the change of the composition of property in service. The annual accrual rates were calculated in accordance with the straight line remaining life method of depreciation, using the average service life procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

The annual depreciation accrual rates are applicable specifically to the electric plant in service as of December 31, 2018. For most plant accounts, the application of such rates to future balances that reflect additions subsequent to December 31, 2018, is reasonable for a period of three to five years.

DESCRIPTION OF STATISTICAL SUPPORT

The service life and salvage estimates were based on judgment which incorporated statistical analyses of retirement data, discussions with management and consideration of estimates made for other electric utility companies. The results of the statistical analyses of service life are presented in the section titled "Service Life Statistics".

The estimated survivor curves for each account are presented in graphical form. The charts depict the estimated smooth survivor curve and original survivor curve(s),

when applicable, related to each specific group. For groups where the original survivor curve was plotted, the calculation of the original life table is also presented.

The analyses of salvage data are presented in the section titled, "Net Salvage Statistics". The tabulations present annual cost of removal and salvage data, three-year moving averages and the most recent five-year average. Data are shown in dollars and as percentages of original costs retired.

DESCRIPTION OF DEPRECIATION TABULATIONS

A summary of the results of the study, as applied to the original cost of electric plant as of December 31, 2018, is presented on pages VI-4 through VI-15 of this report. The schedule sets forth the original cost, the book reserve, future accruals, the calculated annual depreciation rate and amount, and the composite remaining life related to electric plant.

The tables of the calculated annual depreciation accruals are presented in account sequence in the section titled "Detailed Depreciation Calculations." The tables indicate the estimated survivor curve and net salvage percent for the account and set forth, for each installation year, the original cost, the calculated accrued depreciation, the allocated book reserve, future accruals, the remaining life and the calculated annual accrual amount.

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE	COMPOSITE REMAINING LIFE	
									(10)=(7)/(8)	
STEAM PRODUCTION PLANT										
311.00	STRUCTURES AND IMPROVEMENTS									
	MARSHALL	06-2034	100-S0.5	*	(5)	177,753,234.84	35,349,371	151,291,526	9,855,840	
	BELEWS CREEK	100-S0.5	*	(7)	350,179,473.76	127,788,409	246,903,628	13,615,052	3.89	
	LEE	06-2030	100-S0.5	*	(11)	34,317,918.81	10,301,899	27,790,981	2,435,020	7.10
	CLIFFSIDE 5 (J.E. ROGERS)	06-2026	100-S0.5	*	(4)	62,362,310.29	38,109,929	26,746,874	3,595,031	5.76
	CLIFFSIDE 6 (J.E. ROGERS)	06-2048	100-S0.5	*	(6)	156,228,545.83	27,594,694	136,007,565	4,815,136	7.4
	CLIFFSIDE 5 AND 6 COMMON (J.E. ROGERS)	06-2048	100-S0.5	*	(5)	90,585,363.73	4,099,902	91,014,750	3,147,951	3.08
	ALLEN	06-2024	100-S0.5	*	(4)	152,962,345.98	61,392,435	97,718,405	17,822,672	11.65
	SHARED DEPARTMENT PLANT	06-2048	100-S0.5	*	(20)	28,984,787.86	3,149,285	31,608,460	1,097,083	3.79
	TOTAL STRUCTURES AND IMPROVEMENTS					1,053,353,980.90	307,755,924	811,082,179	56,383,785	3.35
311.01	STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE									14.4
	CLIFFSIDE 5 AND 6 COMMON (J.E. ROGERS)	10-2038	SQUARE	*	0	51,965,134.00	0	51,965,134	2,620,531	5.04
	TOTAL STRUCTURES AND IMPROVEMENTS - CAPITAL LEASE					51,965,134.00		51,965,134	2,620,531	5.04
312.00	BOILER PLANT EQUIPMENT									19.8
	MARSHALL	06-2034	47-R2	*	(5)	1,223,859,775.74	559,384,340	725,668,425	49,050,706	4.01
	BELEWS CREEK	06-2037	47-R2	*	(7)	1,519,843,406.59	654,801,341	971,431,104	55,938,888	3.68
	LEE	06-2030	47-R2	*	(11)	46,799,187.41	27,702,555	24,244,543	2,181,759	4.66
	CLIFFSIDE 5 (J.E. ROGERS)	06-2026	47-R2	*	(4)	567,455,503.71	367,281,979	244,671,745	33,024,570	5.62
	CLIFFSIDE 6 (J.E. ROGERS)	06-2048	47-R2	*	(6)	1,277,388,376.01	280,431,103	1,073,600,576	40,029,348	7.4
	CLIFFSIDE 5 AND 6 COMMON (J.E. ROGERS)	06-2048	47-R2	*	(5)	13,321,805.19	2,953,230	11,034,665	411,937	3.13
	ALLEN	06-2024	47-R2	*	(4)	861,043,479.90	665,456,685	230,028,524	42,365,801	3.09
	SHARED DEPARTMENT PLANT	06-2048	47-R2	*	(15)	1,255,219.66	298,589	1,098,914	41,031	3.38
	TOTAL BOILER PLANT EQUIPMENT					5,530,926,754.21	2,558,309,832	3,280,778,496	223,044,020	4.03
314.00	TURBOGENERATOR UNITS									14.7
	MARSHALL	06-2034	50-R2	*	(5)	233,926,271.77	58,769,958	186,852,627	12,700,737	5.43
	BELEWS CREEK	06-2037	50-R2	*	(7)	29,196,293.73	64,184,171	191,755,863	11,018,677	4.61
	LEE	06-2030	50-R2	*	(11)	8,932,738.18	5,879,480	4,035,879	459,312	8.8
	CLIFFSIDE 5 (J.E. ROGERS)	06-2026	50-R2	*	(4)	60,191,251.65	30,179,321	32,479,581	4,479,143	7.4
	CLIFFSIDE 6 (J.E. ROGERS)	06-2048	50-R2	*	(6)	268,873,563.66	40,544,973	244,461,004	9,005,389	3.35
	ALLEN	06-2024	50-R2	*	(4)	144,305,496.97	56,447,141	93,630,576	17,402,128	12.06
	SHARED DEPARTMENT PLANT	06-2048	50-R2	*	(5)	553,483.39	84,029	478,229	17,661	3.30
	TOTAL TURBOGENERATOR UNITS					955,961,099.35	256,089,053	753,633,759	55,083,047	5.76
315.00	ACCESSORY ELECTRIC EQUIPMENT									13.7
	MARSHALL	06-2034	60-S1	*	(5)	75,898,723.84	37,588,881	42,104,779	2,875,276	3.79
	BELEWS CREEK	06-2037	60-S1	*	(7)	69,152,297.37	29,950,525	44,042,433	2,535,409	3.67
	LEE	06-2030	60-S1	*	(11)	16,727,398.04	11,257,714	7,310,364	671,186	4.01
	CLIFFSIDE 5 (J.E. ROGERS)	06-2026	60-S1	*	(4)	23,486,537.82	16,436,607	7,989,362	1,098,786	4.68
	CLIFFSIDE 6 (J.E. ROGERS)	06-2048	60-S1	*	(6)	153,517,154.41	27,975,060	134,753,124	4,880,606	7.3
	CLIFFSIDE 5 AND 6 COMMON (J.E. ROGERS)	06-2048	60-S1	*	(5)	134,926,55	11,747	129,926	4,595	2.78
	ALLEN	06-2024	60-S1	*	(4)	56,953,056.20	40,679,451	18,551,728	3,436,300	6.03
	TOTAL ACCESSORY ELECTRIC EQUIPMENT					395,870,694.32	163,899,985	254,881,746	15,472,158	3.91

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE		COMPOSITE REMAINING LIFE (10)=(7)/(8)
								(2)	(3)	
316.00	MISCELLANEOUS POWER PLANT EQUIPMENT									
	MARSHALL	06-2034	45-R2.5 *	(5)	33,209,639.14	10,782,210	24,087,911	1,635,596	4.93	14.7
	BELEWS CREEK	06-2037	45-R2.5 *	(7)	28,632,798.86	7,074,278	23,594,917	1,343,339	4.69	17.6
	LEE	06-2030	45-R2.5 *	(11)	6,307,290.54	2,825,235	4,175,857	378,638	6.00	11.0
	CLIFFSIDE 5 (J.E. ROGERS)	06-2026	45-R2.5 *	(4)	12,691,831.13	5,906,840	7,292,664	990,698	7.81	7.4
	CLIFFSIDE 6 (J.E. ROGERS)	06-2048	45-R2.5 *	(6)	247,437,858.01	39,846,436	222,458,893	8,213,951	3.32	27.1
	CLIFFSIDE 5 AND 6 COMMON (J.E. ROGERS)	06-2048	45-R2.5 *	(5)	6,568,205.17	451,533	6,445,082	232,455	3.54	27.7
	ALLEN	06-2024	45-R2.5 *	(4)	21,448,804.46	10,230,609	12,076,148	2,222,491	10.36	5.4
	SHARED DEPARTMENT PLANT	06-2048	45-R2.5 *	(5)	8,513,140.12	545,526	8,393,271	302,842	3.56	27.7
	TOTAL MISCELLANEOUS POWER PLANT EQUIPMENT				364,859,567.23	77,662,667	308,524,743	15,320,010	4.20	20.1
	TOTAL STEAM PRODUCTION PLANT				8,352,937,230.01	3,363,717,461	5,466,866,057	367,923,551	4.40	14.8
	NUCLEAR PRODUCTION PLANT									
321.00	STRUCTURES AND IMPROVEMENTS									
	OCONEE	07-2034	55-S1.5 *	(1)	962,552,204.43	363,677,155	608,500,591	40,290,834	4.19	15.1
	MCGUIRE	03-2043	55-S1.5 *	(3)	688,885,399.56	347,935,764	361,595,588	17,580,981	2.55	20.6
	CATAWBA	12-2043	55-S1.5 *	(3)	244,337,031.68	123,558,372	128,108,771	6,084,205	2.49	21.1
	TOTAL STRUCTURES AND IMPROVEMENTS				1,895,754,635.67	835,171,271	1,098,204,960	63,966,020	3.37	17.2
322.00	REACTOR PLANT EQUIPMENT									
	OCONEE	07-2034	45-R2 *	(1)	1,936,377,070.35	712,563,446	1,243,177,395	83,818,041	4.33	14.8
	MCGUIRE	03-2043	45-R2 *	(3)	1,541,431,173.40	764,011,403	823,462,706	42,280,970	2.74	19.5
	CATAWBA	12-2043	45-R2 *	(3)	366,655,392.19	193,073,267	184,581,787	9,515,997	2.60	19.4
	TOTAL REACTOR PLANT EQUIPMENT				3,844,463,635.94	1,669,648,116	2,251,421,888	135,595,008	3.53	16.6
323.00	TURBOGENERATOR UNITS									
	OCONEE	07-2034	45-R2 *	(1)	323,043,816.85	139,593,883	186,680,372	13,007,263	4.03	14.4
	MCGUIRE	03-2043	45-R2 *	(3)	558,033,213.30	178,531,985	396,231,925	18,807,118	3.37	21.1
	CATAWBA	12-2043	45-R2 *	(3)	96,835,608.08	49,529,540	50,211,136	2,692,698	2.78	18.6
	TOTAL TURBOGENERATOR UNITS				977,902,638.23	367,655,408	633,123,433	34,507,079	3.53	18.3
324.00	ACCESSORY ELECTRIC EQUIPMENT									
	OCONEE	07-2034	50-R2.5 *	(1)	882,699,097.92	234,018,394	657,507,695	43,285,982	4.90	15.2
	MCGUIRE	03-2043	50-R2.5 *	(3)	255,846,958.43	98,800,588	164,721,779	7,988,448	3.11	20.7
	CATAWBA	12-2043	50-R2.5 *	(3)	90,651,299.28	35,170,598	58,200,240	2,732,517	3.01	21.3
	TOTAL ACCESSORY ELECTRIC EQUIPMENT				1,229,197,355.63	367,989,580	880,429,714	53,976,947	4.39	16.3

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE		COMPOSITE REMAINING LIFE
								(8)	(9)=(8)/(5)	
325.00	MISCELLANEOUS PLANT EQUIPMENT	07-2034	50-R2.5 *	(1)	239,273,766.18	103,623,611	138,042,893	9,217,217	3.85	15.0
	OCONEE	03-2043	50-R2.5 *	(3)	280,936,815.63	110,356,559	178,998,061	8,211,233	2.92	21.8
	MC GUIRE	12-2043	50-R2.5 *	(3)	49,539,213.46	20,607,709	30,407,381	1,368,393	2.76	22.2
	CATAWBA	12-2043	50-R2.5 *	(2)	1,446,302.62	415,007	1,060,222	45,019	3.11	23.6
	TOTAL MISCELLANEOUS PLANT EQUIPMENT				571,176,097.89	235,002,886	348,508,557	18,841,862	3.30	18.5
	TOTAL NUCLEAR PRODUCTION PLANT				8,518,494,363.36	3,475,467,261	5,211,688,552	306,886,916	3.60	17.0
331.00	STRUCTURES AND IMPROVEMENTS									
	COWANS FORD	75-S2 *	(11)		16,442,484.37	8,532,993	9,718,165	303,767	1.85	32.0
	BAD CREEK	75-S2 *	(6)		228,124,720.82	115,385,174	126,427,030	3,683,512	1.61	34.3
	JOCASSEE	75-S2 *	(5)		28,418,568.53	13,643,912	16,195,358	626,982	2.21	25.8
	KEOWEE	75-S2 *	(5)		13,536,904.33	2,594,906	11,618,844	428,071	3.16	27.1
	FISHING CREEK	75-S2 *	(17)		4,376,021.49	1,805,495	3,314,450	96,591	2.21	34.3
	CEDAR CREEK	75-S2 *	(17)		3,989,687.38	1,508,531	3,159,403	91,628	2.30	34.5
	BRIDGEWATER	75-S2 *	(4)		65,238,751.57	13,080,924	54,767,378	1,538,980	2.36	35.6
	GASTON SHOALS	75-S2 *	(17)		1,666,255.14	588,944	1,360,575	78,119	4.69	17.4
	LOOKOUT SHOALS	75-S2 *	(23)		2,520,600.38	1,265,854	1,834,484	54,430	2.16	33.7
	MOUNTAIN ISLAND	75-S2 *	(24)		3,374,178.46	967,129	3,216,852	91,589	2.71	35.1
	99 ISLANDS	75-S2 *	(19)		1,507,509.74	636,988	1,156,948	66,569	4.42	17.4
	OXFORD	75-S2 *	(8)		4,113,826.46	1,703,588	2,739,335	80,590	1.96	34.0
	RHOHRISS	75-S2 *	(17)		4,003,188.95	1,712,393	2,971,338	86,747	2.17	34.3
	TUXEDO	75-S2 *	(19)		1,023,475.93	266,923	951,013	42,587	4.16	22.3
	WATERFEE	75-S2 *	(16)		9,000,996.27	4,204,233	6,306,523	187,820	2.07	33.6
	WYLIE	75-S2 *	(15)		6,639,140.60	2,924,173	4,710,839	138,786	2.09	33.9
	GREAT FALLS	75-S2 *	(108)		471,320.94	597,970	382,378	11,316	2.40	33.8
	DEARBORN	75-S2 *	(25)		2,137,143.23	1,175,159	1,496,270	44,924	2.10	33.3
	NPL BEAR CREEK	75-S2 *	(11)		2,003,826.33	194,639	919,608	41,185	4.10	22.3
	NPL BRYSON	75-S2 *	(29)		18,925.00	20,707	3,706	225	1.19	16.5
	NPL CEDAR CLIFF	75-S2 *	(24)		1,549,512.15	357,676	1,563,719	69,922	4.51	22.4
	NPL FRANKLIN	75-S2 *	(22)		982,130.08	208,180	944,219	41,989	4.46	22.4
	NPL MISSION	75-S2 *	(34)		326,066.29	134,386	302,543	13,663	4.19	22.1
	NPL NANTAHALA	75-S2 *	(11)		2,173,943.89	635,075	1,778,003	77,107	3.55	23.1
	NPL QUEENS CREEK	75-S2 *	(79)		112,213.15	75,712	125,150	9,309	8.30	13.4
	NPL TENNESSEE CREEK	75-S2 *	(20)		335,877.97	172,255	254,799	11,677	3.28	21.8
	NPL THORPE	75-S2 *	(18)		3,070,672.67	1,204,062	2,419,332	109,906	3.58	22.0
	NPL TUCKASEGEE	75-S2 *	(33)		2,374,066.92	690,737	2,466,772	110,279	4.65	22.4
	SHARED DEPARTMENT PLANT	75-S2 *	(25)		27,830,67	12,757	22,031	949	3.41	23.2
	TOTAL STRUCTURES AND IMPROVEMENTS				408,599,839.71	176,301,486	263,124,292	8,139,189	1.99	32.3
332.00	RESERVOIRS, DAMS AND WATERWAY									
	COWANS FORD	100-S2.5 *	(11)		36,637,451.24	17,066,913	23,600,658	666,876	1.82	35.4
	BAD CREEK	100-S2.5 *	(6)		455,304,760.07	250,081,266	232,541,780	6,114,618	1.34	38.0
	JOCASSEE	100-S2.5 *	(5)		52,748,976.90	40,748,919	14,243,757	543,604	1.04	26.2
	KEOWEE	100-S2.5 *	(4)		17,440,014.34	14,364,755	3,947,260	152,815	0.88	25.8
	FISHING CREEK	100-S2.5 *	(17)		15,283,129.27	7,826,968	10,054,293	279,944	1.83	35.9
	CEDAR CREEK	100-S2.5 *	(17)		12,029,057.00	4,545,168	9,528,829	263,545	2.19	36.2

DUKE ENERGY CAROLINAS
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ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL RATE (8)		COMPOSITE REMAINING LIFE (10)=(7)/(8)
							AMOUNT (8)	(9)=(8)/(5)	
BRIDGEWATER	06-2055	100-S2.5	*	(4)	105,399,462.60	31,623,078	77,992,363	2,151,270	2.04
GASTON SHOALS	06-2055	100-S2.5	*	(17)	6,356,556.97	4,447,623	2,989,549	171,060	2.69
LOOKOUT SHOALS	06-2055	100-S2.5	*	(23)	5,618,090.79	3,780,588	3,129,664	87,322	1.55
MOUNTAIN ISLAND	06-2055	100-S2.5	*	(24)	5,531,690.00	4,591,161	2,268,135	64,681	1.17
99 ISLANDS	06-2036	100-S2.5	*	(19)	11,666,336.28	8,415,279	5,467,661	312,929	2.68
OXFORD	06-2055	100-S2.5	*	(8)	30,626,356.67	8,643,511	24,432,954	674,961	2.20
RHODISSL	06-2055	100-S2.5	*	(17)	7,546,536.90	4,286,243	4,543,205	127,019	1.68
TUXEDO	06-2041	100-S2.5	*	(19)	6,431,757.86	4,928,988	2,724,794	122,244	1.90
WATERFREE	06-2055	100-S2.5	*	(16)	14,861,722.62	8,674,766	8,564,832	239,430	1.61
WYLIE	06-2055	100-S2.5	*	(15)	21,518,088.70	8,348,089	16,397,713	454,470	2.11
GREAT FALLS	06-2055	100-S2.5	*	(108)	2,889,197.00	2,819,978	1,847,952	52,428	1.83
DEARBORN	06-2055	100-S2.5	*	(25)	1,506,205.65	1,032,665	23,920	1.59	35.6
NPL BEAR CREEK	06-2041	100-S2.5	*	(11)	3,719,272.82	2,429,092	1,699,130	76,398	2.05
NPL BYRSYON	06-2041	100-S2.5	*	(29)	2,838,507.57	689,452	2,972,223	132,198	4.66
NPL CEDAR CLIFF	06-2041	100-S2.5	*	(24)	2,112,155.00	2,072,209	546,863	24,934	1.18
NPL FRANKLIN	06-2041	100-S2.5	*	(22)	5,480,622.03	1,125,734	5,536,225	246,171	4.51
NPL MISSION	06-2041	100-S2.5	*	(34)	1,811,702.03	1,210,886	1,216,845	54,275	3.00
NPL NANTAHALA	06-2042	100-S2.5	*	(11)	13,526,218.47	10,196,693	4,817,410	207,945	1.54
NPL QUEENS CREEK	06-2032	100-S2.5	*	(79)	753,263.89	886,984	479,248	35,504	4.65
NPL TENNESSEE CREEK	06-2041	100-S2.5	*	(20)	4,890,494.24	4,334,724	1,533,920	69,736	1.43
NPL THORPE	06-2041	100-S2.5	*	(18)	4,897,153.00	5,657,657	120,984	6,422	0.13
NPL TUCKASEGEE	06-2041	100-S2.5	*	(33)	637,985.00	804,614	43,906	2,234	0.35
SHARED DEPARTMENT PLANT	06-2042	100-S2.5	*	(25)	324,568.00	235,061	170,649	7,308	2.25
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TOTAL RESERVOIRS, DAMS AND WATERWAY									
333.00	WATER WHEELS, TURBINES AND GENERATORS								
	COWANS FORD	06-2055	65-S1	*	(11)	49,672,298.59	12,932,614	42,203,637	1,280,469
	BAD CREEK	06-2058	65-S1	*	(6)	238,780,281.46	116,106,407	137,000,691	4,344,051
	JOCASSEE	06-2046	65-S1	*	(5)	71,154,554.90	29,014,013	45,698,270	1,803,138
	KEOWEE	06-2046	65-S1	*	(5)	72,561,594.57	20,035,069	56,154,605	2,149,824
	FISHING CREEK	06-2055	65-S1	*	(17)	22,386,920.14	10,527,622	15,665,075	502,060
	CEDAR CREEK	06-2055	65-S1	*	(17)	12,254,188.12	5,831,655	8,505,745	272,968
	BRIDGEWATER	06-2055	65-S1	*	(4)	20,780,063.61	4,299,837	17,311,429	514,146
	GASTON SHOALS	06-2036	65-S1	*	(17)	10,102,536.62	3,273,687	8,546,281	497,619
	LOOKOUT SHOALS	06-2055	65-S1	*	(23)	10,624,869.25	4,862,370	8,206,219	259,677
	MOUNTAIN ISLAND	06-2055	65-S1	*	(24)	16,270,737.67	6,850,619	13,325,096	414,277
	99 ISLANDS	06-2036	65-S1	*	(19)	10,686,437.16	5,746,242	6,946,818	3,84
	OXFORD	06-2055	65-S1	*	(8)	18,546,865.33	4,800,001	15,230,614	409,679
	RHODISSL	06-2055	65-S1	*	(17)	16,380,554.79	4,650,378	14,491,471	459,157
	TUXEDO	06-2041	65-S1	*	(19)	1,986,061.33	706,661	1,668,652	436,568
	WATERFREE	06-2055	65-S1	*	(16)	23,654,143.79	10,301,438	17,137,369	542,327
	WYLIE	06-2055	65-S1	*	(15)	17,445,697.29	8,725,082	11,337,470	369,410
	GREAT FALLS	06-2055	65-S1	*	(108)	5,339,349.83	5,430,989	5,674,859	187,448
	DEARBORN	06-2055	65-S1	*	(25)	11,853,475.07	5,833,844	8,998,000	287,379

TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL RATE (8)=(7)/(5)		COMPOSITE REMAINING LIFE (10)=(7)(8)
							AMOUNT (8)	RATE (9)=(8)/ (5)	
NPL BEAR CREEK	06-2041	65-S1	*	(11)	6,450,843.51	622,205	6,538,231	295,664	4.58
NPL BRYSON	06-2041	65-S1	*	(29)	3,331,409.27	680,704	3,616,814	164,256	4.93
NPL CEDAR CLIFF	06-2041	65-S1	*	(24)	3,352,939.06	1,038,472	3,119,172	142,954	4.26
NPL FRANKLIN	06-2041	65-S1	*	(22)	1,340,570.67	445,526	1,189,970	54,632	4.08
NPL MISSION	06-2041	65-S1	*	(34)	5,814,649.93	1,436,750	6,354,881	289,113	4.97
NPL NANTAHALA	06-2042	65-S1	*	(11)	3,866,009.26	1,942,497	2,348,773	107,499	2.78
NPL QUEENS CREEK	06-2032	65-S1	*	(79)	38,141.00	61,123	7,149	644	1.69
NPL TENNESSEE CREEK	06-2041	65-S1	*	(20)	2,167,432.77	688,102	1,912,817	88,079	4.06
NPL THORPE	06-2041	65-S1	*	(18)	819,569.53	515,562	451,530	22,301	2.72
NPL TUCKASEGEE	06-2041	65-S1	*	(33)	250,436.55	153,517	179,564	8,685	3.47
SHARED DEPARTMENT PLANT	06-2042	65-S1	*	(25)	836.52	364	682	30	3.59
TOTAL WATER WHEELS, TURBINES AND GENERATORS				657,895,467.59	267,513,350	459,821,884	15,981,068	2.43	28.8
334.00 ACCESSORY ELECTRIC EQUIPMENT									
COWANS FORD	06-2055	65-S1	*	(11)	7,019,818.36	1,871,614	5,920,384	183,897	2.62
BAD CREEK	06-2058	65-S1	*	(6)	51,305,557.30	21,431,384	32,952,507	1,049,938	2.05
JOCASSEE	06-2046	65-S1	*	(5)	13,791,023.98	4,984,233	9,496,292	322,344	31.4
KEOWEE	06-2046	65-S1	*	(5)	21,431,167.29	7,330,043	15,172,683	597,688	2.77
FISHING CREEK	06-2055	65-S1	*	(17)	4,835,713.06	1,869,049	3,777,035	121,004	2.79
CEDAR CREEK	06-2055	65-S1	*	(17)	3,549,165.21	1,283,430	2,869,093	90,433	2.51
BRIDGEWATER	06-2055	65-S1	*	(17)	7,383,449.70	1,293,507	6,385,281	189,621	2.55
GASTON SHOALS	06-2036	65-S1	*	(17)	2,109,581.24	1,216,280	1,251,930	75,856	3.60
LOOKOUT SHOALS	06-2055	65-S1	*	(23)	2,113,118.46	946,254	1,652,882	54,420	2.58
MOUNTAIN ISLAND	06-2055	65-S1	*	(24)	2,678,559.89	971,1243	2,350,171	74,452	2.78
99 ISLANDS	06-2036	65-S1	*	(19)	640,202,83	263,472	498,369	29,977	4.68
OXFORD	06-2055	65-S1	*	(8)	3,769,797.58	1,284,563	2,786,818	88,504	2.35
RHODHIS	06-2055	65-S1	*	(17)	2,251,110.45	899,228	1,734,571	56,071	2.49
UXEDO	06-2041	65-S1	*	(19)	907,396.33	359,550	720,252	33,923	3.74
WATERFEE	06-2055	65-S1	*	(16)	5,385,949.79	1,666,888	4,580,814	142,234	2.64
WYLIE	06-2055	65-S1	*	(15)	3,929,751.13	1,466,076	3,053,138	98,229	2.50
GREAT FALLS	06-2055	65-S1	*	(108)	853,483.13	846,773	928,472	36,092	4.23
DEARBORN	06-2055	65-S1	*	(25)	3,821,458.22	1,610,384	3,166,439	101,578	2.66
NPL BEAR CREEK	06-2041	65-S1	*	(11)	122,274.84	68,995	66,730	3,402	2.78
NPL BRYSON	06-2041	65-S1	*	(29)	14,607,86	8,867	9,977	513	3.51
NPL CEDAR CLIFF	06-2041	65-S1	*	(24)	108,549,43	60,735	73,866	3,657	3.37
NPL FRANKLIN	06-2041	65-S1	*	(22)	119,785.05	46,290	99,848	4,720	3.94
NPL MISSION	06-2041	65-S1	*	(34)	50,985,00	33,281	35,039	1,772	2.57
NPL NANTAHALA	06-2032	65-S1	*	(11)	2,140,283.68	696,235	1,679,480	75,162	3.12
NPL QUEENS CREEK	06-2041	65-S1	*	(20)	133,285.31	187,948	140,133	10,888	5.94
NPL TENNESSEE CREEK	06-2041	65-S1	*	(18)	194,805.86	108,452	125,315	6,209	3.19
NPL THORPE	06-2041	65-S1	*	(33)	2,132,647.00	984,390	1,532,133	73,138	3.43
NPL TUCKASEGEE	06-2041	65-S1	*	(33)	243,404.23	152,379	171,349	8,370	3.44
TOTAL ACCESSORY ELECTRIC EQUIPMENT				143,076,932.21	53,941,593	103,231,001	3,594,092	2.51	28.7
335.00 MISCELLANEOUS PLANT EQUIPMENT									
COWANS FORD	06-2055	55-R2	*	(11)	1,741,315.19	490,757	1,442,103	45,902	2.64
BAD CREEK	06-2058	55-R2	*	(6)	28,870,301.41	11,988,137	18,614,382	616,113	2.13
JOCASSEE	06-2046	55-R2	*	(5)	3,900,447.65	1,402,176	2,693,294	111,824	2.87
KEOWEE	06-2046	55-R2	*	(5)	86,793.51	475,327	424,306	19,367	2.26
FISHING CREEK	06-2055	55-R2	*	(17)	335,391.58	100,284	292,124	9,278	2.77
CEDAR CREEK	06-2055	55-R2	*	(17)	55,883.19	107,134	49,449	15,279	32.5

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL RATE (8)		COMPOSITE REMAINING LIFE (10)=(7)/(8)	
							AMOUNT (8)	(9)=(8)/(5)		
BRIDGEWATER	06-2055	55-R2	*	(4)	7,374,528.31	1,342,055	6,327,454	192,332	2.61	
GASTON SHOALS	06-2055	55-R2	*	(17)	237,153.34	94,773	241,196	14,272	32.9	
LOOKOUT SHOALS	06-2055	55-R2	*	(23)	450,161.21	158,124	395,574	12,767	4.97	
MOUNTAIN ISLAND	06-2055	55-R2	*	(24)	527,620.03	176,533	477,716	15,314	31.0	
99 ISLANDS	06-2036	55-R2	*	(19)	378,539.08	178,514	271,948	16,280	31.2	
OXFORD	06-2055	55-R2	*	(8)	627,510.26	158,895	518,816	16,305	4.30	
RHODHISS	06-2055	55-R2	*	(17)	497,691.41	176,438	405,861	13,178	31.8	
TUXEDO	06-2041	55-R2	*	(16)	230,355.25	99,710	162,513	7,810	3.54	
WATERFREE	06-2055	55-R2	*	(16)	494,967.67	137,837	346,325	13,741	31.8	
WYLIE	06-2055	55-R2	*	(15)	639,506.16	153,262	582,170	18,129	2.83	
GREAT FALLS	06-2055	55-R2	*	(108)	259,886.80	134,989	405,576	12,819	32.1	
DEARBORN	06-2055	55-R2	*	(25)	230,695.30	105,594	207,594	6,905	4.93	
NPL BEAR CREEK	06-2041	55-R2	*	(11)	165,739.40	40,913	143,058	6,662	30.8	
NPL BRYSON	06-2041	55-R2	*	(29)	106,208.83	29,666	107,344	4,988	4.02	
NPL CEDAR CLIFF	06-2041	55-R2	*	(24)	124,237.85	33,852	120,203	5,597	21.5	
NPL FRANKLIN	06-2041	55-R2	*	(22)	110,419.80	40,071	94,641	4,448	4.03	
NPL MISSION	06-2041	55-R2	*	(34)	66,512.53	15,984	73,143	3,393	21.3	
NPL NANTAHALA	06-2042	55-R2	*	(11)	1,239,716.64	293,528	1,082,557	48,432	5.10	
NPL QUEENS CREEK	06-2032	55-R2	*	(79)	201,666.98	199,174	161,810	12,457	22.4	
NPL TENNESSEE CREEK	06-2041	55-R2	*	(20)	224,997.03	63,585	206,411	9,619	4.03	
NPL THORPE	06-2041	55-R2	*	(18)	1,479,206.68	166,488	1,578,986	72,779	21.6	
NPL TUCKASEGEE	06-2041	55-R2	*	(33)	98,009.07	26,138	104,214	4,843	4.94	
SHARED DEPARTMENT PLANT	06-2042	55-R2	*	(5)	732,881.68	323,709	508,817	23,481	21.5	
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TOTAL MISCELLANEOUS PLANT EQUIPMENT										
336.00	ROADS, RAILROADS, AND BRIDGES	COWANS FORD	75-R4	*	(11)	2,240,415.70	717,465	1,769,396	50,779	34.8
	BAD CREEK	75-R4	*	(6)	17,899,699.00	8,956,170	9,985,711	273,881	1.53	
	JOCASSEE	75-R4	*	(5)	45,508.00	312,928	123,355	5,192	36.5	
	DEARBORN	75-R4	*	(25)	633,636.00	414,116	377,929	11,261	23.8	
	NPL BEAR CREEK	75-R4	*	(11)	52,776.00	51,359	7,222	477	33.6	
	NPL CEDAR CLIFF	75-R4	*	(24)	159,738.00	103,471	57,404	2,688	21.4	
	NPL NANTAHALA	75-R4	*	(11)	239,971.28	191,178	75,190	3,577	21.0	
	NPL QUEENS CREEK	75-R4	*	(79)	2,830.00	4,813	253	25	10.1	
	NPL TENNESSEE CREEK	75-R4	*	(20)	72,590.00	75,847	11,261	725	15.5	
	NPL THORPE	75-R4	*	(18)	46,024.00	43,210	11,098	576	19.3	
	NPL TUCKASEGEE	75-R4	*	(33)	8,678.00	10,450	1,092	82	13.3	
	SHARED DEPARTMENT PLANT	75-R4	*	0	84,399.00	84,399	0	0	-	
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	TOTAL ROADS, RAILROADS, AND BRIDGES				21,796,264.98	10,965,406	12,419,911	349,263	1.60	
	TOTAL HYDRAULIC PRODUCTION PLANT				2,134,189,181.14	984,604,224	1,341,437,150	42,784,187	2.00	
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DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED
ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL RATE (8)		COMPOSITE REMAINING LIFE (10)=(7)/(8)
								AMOUNT (8)	RATE (9)=(8)/(5)	
OTHER PRODUCTION PLANT										
341.00	STRUCTURES AND IMPROVEMENTS									
	LINCOLN DAN RIVER COMBINED CYCLE	06-2035	50-R3 *	(5)	28,616,965.67	15,424,949	14,622,865	950,643	3.32	15.4
	LEE	06-2052	50-R3 *	(5)	145,036,631.24	22,321,187	130,030,276	4,167,976	2.87	31.2
	MILL CREEK	06-2047	50-R3 *	(6)	433,308.06	27,239	495,668	17,881	3.62	27.7
	ROCKINGHAM	06-2043	50-R3 *	(5)	29,782,578.65	11,285,883	20,005,825	883,635	2.97	22.6
	BUCK COMBINED CYCLE	06-2040	50-R3 *	(3)	3,365,506.27	147,848,826.14	24,228,245	2,976,248	4.19	21.1
	LEE COMBINED CYCLE	06-2051	50-R3 *	(5)	12,554,328.77	155,693	13,277,439	4,291,904	2.90	30.5
	TOTAL STRUCTURES AND IMPROVEMENTS	06-2058	50-R3 *	(7)	367,758,144.80	73,913,419	312,421,343	356,441	2.84	37.3
	STRUCTURES AND IMPROVEMENTS - SOLAR									
	MOCKSVILLE	06-2041	40-S2.5 *	(11)	101,358.46	2,683	109,855	4,962	2.94	28.9
	WOODLEAF	06-2043	40-S2.5 *	(10)	154,628.59	1,287	168,804	7,016	4.54	22.1
	TOTAL STRUCTURES AND IMPROVEMENTS - SOLAR				255,987.05	3,940	278,659	11,978	4.68	23.3
341.66	FUEL HOLDERS, PRODUCERS AND ACCESSORIES									
	LINCOLN DAN RIVER COMBINED CYCLE	06-2035	50-R2.5 *	(5)	12,584,656.00	10,159,076	3,054,813	201,367	1.60	15.2
	MILL CREEK	06-2052	50-R2.5 *	(5)	20,414,343.91	4,495,405	16,935,636	549,502	2.69	30.8
	ROCKINGHAM	06-2043	50-R2.5 *	(5)	15,006,355.46	8,252,384	7,567,289	338,691	2.25	22.3
	BUCK COMBINED CYCLE	06-2040	50-R2.5 *	(3)	55,564.04	16,781	40,450	1,952	3.51	20.7
	LEE COMBINED CYCLE	06-2051	50-R2.5 *	(5)	30,532,901.92	7,693,624	24,428,923	817,004	2.67	29.9
	TOTAL FUEL HOLDERS, PRODUCERS AND ACCESSORIES	06-2058	50-R2.5 *	(7)	21,061,946.20	381,790	22,154,492	607,305	2.88	36.5
	FUEL HOLDERS, PRODUCERS AND ACCESSORIES - CAPITAL LEASE									
	DAN RIVER COMBINE D CYCLE (PIPELINE)	12-2041	SQUARE *	0	7,908,779.66	1,340,432	6,568,348	285,580	3.61	23.0
	DAN RIVER COMBINE D CYCLE (PIPELINE HEATERS)	09-2037	SQUARE *	0	1,879,537.00	37,546	1,841,991	98,240	5.23	18.7
	BUCK COMBINED CYCLE	11-2030	SQUARE *	0	31,886,250.30	9,472,345	22,413,905	1,880,361	5.90	11.9
	LEE COMBINED CYCLE	05-2037	SQUARE *	0	41,450,840.97	842,699	40,608,142	2,204,568	5.32	18.4
	TOTAL FUEL HOLDERS, PRODUCERS AND ACCESSORIES - CAPITAL LEASE				83,125,407.93	11,693,022	71,432,386	4,468,749	2.52	29.5
342.02	PRIME MOVERS, PRODUCERS AND ACCESSORIES - CAPITAL LEASE									
	LINCOLN DAN RIVER COMBINED CYCLE	06-2035	45-R1.5 *	(5)	254,277,559.60	170,145,382	96,846,056	6,518,306	2.56	14.9
	LEE	06-2052	45-R1.5 *	(5)	151,071,822.22	31,661,093	126,964,320	4,419,666	2.93	28.7
	MILL CREEK	06-2047	45-R1.5 *	(6)	59,449,299.20	20,098,671	42,917,586	1,735,749	2.92	24.7
	ROCKINGHAM	06-2043	45-R1.5 *	(5)	184,188,769.11	90,540,679	102,836,529	4,859,803	2.64	21.2
	BUCK COMBINED CYCLE	06-2040	45-R1.5 *	(3)	78,932,480.55	18,065,926	63,234,929	3,165,494	4.01	20.0
	LEE COMBINED CYCLE	06-2051	45-R1.5 *	(5)	136,707,127.80	31,866,980	111,675,504	3,984,305	2.92	28.0
	TOTAL PRIME MOVERS	06-2058	45-R1.5 *	(7)	401,856,604.14	6,680,547	423,326,019	12,480,195	3.11	33.9
	PRIME MOVERS				1,266,463,662.62	369,038,878	967,800,943	37,173,518	2.94	26.0

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	CALCULATED ANNUAL ACCRUAL RATE (8)	COMPOSITE REMAINING LIFE (10)=(7)/(8)	
								AMOUNT (8)	RATE (9)=(8)/(5)	
343.10	PRIME MOVERS - ROTABLE PARTS DAN RIVER COMBINED CYCLE BUCK COMBINED CYCLE	06-2052 06-2051	5-R5 5-R5	* 40	36,034,350.46 33,675,525.83	16,521,654 18,930,954	5,098,956 1,274,361	3,289,649 1,274,361	9.13 3.78	1.6 1.0
	TOTAL PRIME MOVERS - ROTABLE PARTS				69,709,876.29	35,452,608	6,373,317	4,564,010	6.55	1.4
344.00	GENERATORS LINCOLN DAN RIVER COMBINED CYCLE MILL CREEK EQUITABLE DIESEL GENERATORS ROCKINGHAM BUCK COMBINED CYCLE LEE COMBINED CYCLE	06-2035 06-2052 06-2043 06-2028 06-2040 06-2051 06-2058	50-R2 50-R2 50-R2 50-R2 50-R2 50-R2 50-R2	* * * * * * *	78,931,768.61 238,322,729.73 1,328,563.65 17,732,022.24 217,352,904.96 231,708,717.73 47,059,175.22	49,880,974 43,827,501 164,226 6,804,831 107,547,490 48,655,475 692,447	32,997,383 206,411,365 1,230,766 11,813,722 116,326,002 194,608,679 49,671,570	2,182,699 6,838,721 52,840 1,263,586 5,970,642 6,645,643 1,390,971	2.77 2.87 3.98 7.13 2.75 2.87 2.96	15.1 30.2 23.3 9.3 19.5 29.3 35.7
	TOTAL GENERATORS				832,445,882.14	257,602,944	613,059,557	24,345,102	2.92	25.2
344.66	GENERATORS - SOLAR GENERAL MOCKSVILLE MONROE WOODLEAF	06-2041 06-2042 06-2043	20-S2.5 25-S2.5 25-S2.5	0 (*11) * (*10)	28,316,888.53 29,390,361.36 112,338,378.58 11,967,612.33	8,672,183 2,794,245 6,466,358 225,491	19,644,706 29,829,056 119,352,626 12,938,883	1,646,019 1,515,704 5,771,404 596,812	5.81 5.16 5.14 4.99	11.9 19.7 20.7 21.7
	TOTAL GENERATORS - SOLAR				182,013,241.40	18,158,277	181,765,271	9,529,939	5.24	19.1
345.00	ACCESSORY ELECTRIC EQUIPMENT LINCOLN DAN RIVER COMBINED CYCLE LEE MILL CREEK ROCKINGHAM BUCK COMBINED CYCLE LEE COMBINED CYCLE	06-2035 06-2052 06-2047 06-2043 06-2040 06-2051 06-2058	40-S0 40-S0 40-S0 40-S0 40-S0 40-S0 40-S0	* * * * * * *	26,598,378.42 47,241,929.04 723,831.28 16,890,165.94 2,159,821.75 48,082,447.60 63,605,677.47	20,172,175 11,387,695 66,793 8,766,041 68,1524 13,815,768 1,424,527	7,756,122 37,716,330 700,468 8,968,633 1,553,392 36,670,802 66,633,548	549,288 1,430,080 28,373 451,830 81,616 1,434,261 2,111,329	2.07 3.03 3.92 2.68 19.8 3.76 3.32	14.1 26.4 24.7 19.8 19.0 25.6 31.6
	TOTAL ACCESSORY ELECTRIC EQUIPMENT				205,312,251.50	56,814,523	159,999,295	6,086,777	2.96	26.3
345.66	ACCESSORY ELECTRIC EQUIPMENT - SOLAR GENERAL MOCKSVILLE MONROE WOODLEAF	06-2041 06-2042 06-2043	20-S2.5 25-S2.5 25-S2.5	0 (*11) * (*10)	988,895.09 2,281,560.00 4,229,810.80 833,770.93	359,626 318,714 357,735 24,743	629,269 2,213,818 4,379,653 958,405	46,657 112,491 211,782 44,207	4.72 4.93 5.01 4.95	13.5 19.7 20.7 21.7
	TOTAL ACCESSORY ELECTRIC EQUIPMENT - SOLAR				8,394,036.82	1,060,818	8,181,145	415,137	4.95	19.7

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE		COMPOSITE REMAINING LIFE
								(1)	(2)	
346.00	MISCELLANEOUS PLANT EQUIPMENT									
	LINCOLN DAN RIVER COMBINED CYCLE	06-2035	40-S1.5 *	(5)	4,300,887.70	1,664,305	2,851,627	190,277	4.42	15.0
	LEE	06-2052	40-S1.5 *	(5)	8,972,750.78	1,287,137	8,164,251	286,025	3.19	28.5
	MILL CREEK	06-2047	40-S1.5 *	(6)	965,029.56	80,601	942,330	35,940	3.72	26.2
	ROCKINGHAM	06-2043	40-S1.5 *	(5)	3,655,505.07	1,216,822	2,621,458	126,484	3.46	20.7
	BUCK COMBINED CYCLE	06-2040	40-S1.5 *	(3)	1,530,168.58	311,168	1,264,906	62,937	4.11	20.1
	LEE COMBINED CYCLE	06-2051	40-S1.5 *	(5)	11,405,992.90	1,899,422	10,076,871	365,123	3.20	27.6
	SHARED DEPARTMENT PLANT	06-2058	40-S1.5 *	(7)	7,107,133.83	102,754	7,501,751	222,208	3.13	33.8
	TOTAL MISCELLANEOUS PLANT EQUIPMENT	06-2058	40-S1.5 *	(5)	79,121.31	7,291	75,786	2,354	2.98	32.2
	MISCELLANEOUS PLANT EQUIPMENT - SOLAR WOODLEAF	06-2043	35-R2.5 *	(10)	38,016,469.73	6,539,500	33,498,980	1,291,348	3.40	25.9
	TOTAL MISCELLANEOUS PLANT EQUIPMENT - SOLAR				116,805.80	0	128,486	5,577	4.77	23.0
	TOTAL OTHER PRODUCTION PLANT				116,805.80	0	128,486	5,577	4.77	23.0
	TOTAL PRODUCTION				3,153,387,533.61	861,280,989	2,429,121,005	101,217,613	3.21	24.0
	TRANSMISSION PLANT				22,159,008,308.12	8,685,069,935	14,443,112,764	818,812,267	3.70	
	STRUCTURES AND IMPROVEMENTS STATION EQUIPMENT	55-R2	(10)	108,489,173.06	19,855,502	99,482,588	2,170,087			
	POLES AND FIXTURES	48-R1.5	(20)	1,843,287,080.50	575,987,478	1,643,715,019	43,512,066			
	OVERHEAD CONDUCTORS AND DEVICES	75-R2	(50)	587,791,762.36	306,917,069	574,770,575	10,058,236			
	UNDERGROUND CONDUIT	48-R1	(30)	558,831,171.11	107,009,737	619,470,785	15,024,969			
	UNDERGROUND CONDUCTOR AND DEVICES ROADS AND TRAILS	60-R2.5	(40)	760,660,328.73	349,213,187	715,711,273	15,381,796			
	UNDERGROUND CONDUCTOR AND DEVICES ROADS AND TRAILS	55-S4	0	124,173.82	86,325	37,849	1,09			
		50-S4	0	5,812,002.49	1,841,268	3,970,734	104,142			
		65-R4	0	42,238.00	18,089	24,149	615			
	TOTAL TRANSMISSION PLANT				3,871,037,930.07	1,360,928,655	3,656,624,972	86,253,267	2.23	42.4
	DISTRIBUTION PLANT									
	STRUCTURES AND IMPROVEMENTS STATION EQUIPMENT	55-S0.5	(10)	112,827,983.33	19,186,633	104,924,149	2,214,720			
	POLES, TOWERS AND FIXTURES	44-R1	(20)	1,376,647,876.87	515,805,874	1,136,171,578	32,261,405			
	OVERHEAD CONDUCTORS AND DEVICES	50-R2	(30)	1,653,000,516.16	831,089,002	1,291,399,169	34,614,100			
	UNDERGROUND CONDUIT	52-R0.5	(25)	2,263,640,318.34	847,176,924	1,982,373,474	44,559,335			
	UNDERGROUND CONDUCTORS AND DEVICES	60-R3	(15)	203,949,849.78	118,056,749	116,485,578	2,791,873			
	LINE TRANSFORMERS	55-R3	(20)	2,040,861,815.64	810,636,007	1,638,398,172	40,019,115			
	SERVICES	45-R1.5	(10)	1,518,704,424.45	631,089,942	1,039,484,925	31,289,615			
	METERING EQUIPMENT	52-R1.5	(15)	1,107,500,564.10	605,596,107	668,609,542	15,374,051			
	METERS	17-L0	0	100,494,301.47	75,940,296	24,554,005	2,615,173			
	METERS-UTILITY OF THE FUTURE	17-L0	0	68,544,144	(86,031,083)	154,075,628	10,601,895			
	INSTALLATIONS ON CUSTOMERS' PREMISES	15-S2.5	0	438,399,266.89	38,262,364	400,046,903	30,148,683			
	STREET LIGHTING AND SIGNAL SYSTEMS	40-R1	(5)	914,011,910.46	269,597,098	690,115,408	21,338,273			
	TOTAL DISTRIBUTION PLANT	36-R0.5	(10)	243,339,601.32	97,823,010	169,909,861	6,020,417			
		12,022,021,972.94			4,774,816,923	9,416,468,482				
										2.28
										34.4

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

GENERAL PLANT	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE	COMPOSITE REMAINING LIFE
STRUCTURES AND IMPROVEMENTS									
390.00	OFFICE FURNITURE AND EQUIPMENT	40-S1	(10)	675,049,911.19	152,884,893	589,670,009	20,657,294	3.06	28.5
391.00	OFFICE FURNITURE AND EQUIPMENT - EDP	15-SQ	0	48,878,029.08	16,046,750	32,831,279	3,258,543	6.67	10.1
391.10		8-SQ	0	113,710,527.80	43,215,000	70,495,528	14,217,928	12.50	5.0
TRANSPORTATION EQUIPMENT									
392.00	PASSENGER CARS AND STATION WAGONS	5-S2.5	10	94,914,61	73,220	12,203	3,477	3.66	3.5
	LIGHT TRUCKS	6-L3	10	2,419,475.49	1,475,465	702,063	150,280	6.21	4.7
	MEDIUM TRUCKS	8-L2	10	438,550.50	184,742	209,953	32,054	7.31	6.5
	HEAVY TRUCKS	10-L2	10	1,304,835.00	1,174,352	0	0	-	-
	HEAVY TRUCKS / POWER EQUIPPED	10-L2	10	2,801,236.11	2,521,112	0	0	-	-
	TRACTORS	13-L3	10	65,897.00	59,307	0	0	-	-
	TRAILERS	16-L0.5	10	5,511,868.72	3,398,681	1,562,001	104,821	1.90	14.9
TOTAL TRANSPORTATION EQUIPMENT									
393.00	STORES EQUIPMENT	20-SQ	0	14,298,928.76	2,387,260	11,911,669	714,946	5.00	16.7
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	20-SQ	0	104,793,595.88	35,105,300	69,688,296	5,240,529	5.00	13.3
395.00	LABORATORY EQUIPMENT	15-SQ	0	5,877,459.28	3,345,440	2,532,019	391,830	6.67	6.5
POWER OPERATED EQUIPMENT									
396.00	MOBILE CRANES	19-S1.5	10	509,129,42	89,886	368,330	19,910	3.91	18.5
	MISCELLANEOUS NON-HIGHWAY EQUIPMENT	13-L2	10	1,020,976.03	918,878	0	0	-	-
	MISCELLANEOUS EQUIPMENT	13-L2	10	9,797,880.43	9,117,180	(299,088)	0	-	-
TOTAL POWER OPERATED EQUIPMENT									
397.00	COMMUNICATION EQUIPMENT	10-SQ	0	11,327,985.88	10,125,944	69,242	19,910	0.18	3.5
398.00	MISCELLANEOUS EQUIPMENT	20-SQ	0	153,219,179.05	76,419,455	76,799,724	15,328,598	10.00	5.0
				10,275,692.04	1,808,680	8,467,002	513,784	5.00	16.5
TOTAL GENERAL PLANT									
DEPRECIALE LAND RIGHTS									
310.00	RIGHTS OF WAY	06-2034	*	0	452,636.00	452,636	0	0	-
	MARSHALL	06-2037	*	0	1,543,811.00	1,547,854	(4,043)	0	-
	BELEWS CREEK	06-2030	*	0	3,106.00	3,106	0	0	-
	LEE	06-2024	*	0	4,303.00	4,303	0	0	-
	ALLEN								
					2,003,856.00	2,007,899	(4,043)	0	-
TOTAL ACCOUNT 310									
320.00	RIGHTS OF WAY	07-2034	*	0	425,003.00	325,108	99,895	6,546	1.54
	OCONEE	03-2043	*	0	74,882.00	45,610	29,272	1,227	1.64
	MCGUIRE	12-2043	*	0	456,656.88	248,863	207,794	8,399	23.9
	CATAWBA	100-R4	*	0					24.7
	ALLEN				956,541.68	619,581	336,961	16,172	1.69
									20.8

DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

	ACCOUNT	PROBABLE RETIREMENT DATE	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	BOOK RESERVE	FUTURE ACCRUALS	CALCULATED ANNUAL ACCRUAL RATE		COMPOSITE REMAINING LIFE
								(1)	(2)	
330.00	RIGHTS OF WAY									
	COWANS FORD	06-2055	110-R4 *	0	6,881,547.00	5,329,789	1,551,758	45,372	0.66	34.2
	BAD CREEK	06-2058	110-R4 *	0	723,692.00	379,185	344,507	8,840	1.22	39.0
	JOCASSEE	06-2046	110-R4 *	0	436,179.00	336,713	99,466	3,685	0.84	27.0
	KEOWEE	06-2046	110-R4 *	0	12,071,075.00	9,761,915	2,309,160	86,162	0.71	26.0
	FISHING CREEK	06-2055	110-R4 *	0	35,796.00	35,796	0	0	-	-
	BRIDGEWATER	06-2055	110-R4 *	0	393,705.00	393,705	0	0	-	-
	GASTON SHOALS	06-2036	110-R4 *	0	16,648.00	16,648	0	0	-	-
	LOOKOUT SHOALS	06-2055	110-R4 *	0	7,426.00	7,426	0	0	-	-
	MOUNTAIN ISLAND	06-2055	110-R4 *	0	323,913.00	323,913	0	0	-	-
	99 ISLANDS	06-2036	110-R4 *	0	17,102.00	17,102	0	0	-	-
	OXFORD	06-2055	110-R4 *	0	695,790.00	682,133	13,657	548	0.08	24.9
	RHODIUS	06-2055	110-R4 *	0	199,929.00	199,925	404	17	0.01	23.8
	TUXEDO	06-2041	110-R4 *	0	245,404.00	245,404	0	0	-	-
	WATERREE	06-2055	110-R4 *	0	204,111.00	204,111	0	0	-	-
	WYLIE	06-2041	110-R4 *	0	1,189,441.24	1,189,441	0	0	-	-
	NPL BEAR CREEK	06-2041	110-R4 *	0	435.00	429	6	0	-	-
	NPL FRANKLIN	06-2042	110-R4 *	0	12,423.00	12,423	0	0	-	-
	NPL NANTAHALA	06-2032	110-R4 *	0	80,304.00	80,304	0	0	-	-
	NPL QUEENS CREEK	06-2041	110-R4 *	0	5,782.00	5,782	0	0	-	-
	NPL TENNESSEE CREEK	06-2041	110-R4 *	0	711.00	711	0	0	-	-
	NPL THORPE	06-2041	110-R4 *	0	47,127.00	47,127	0	0	-	-
	NPL TUCKASEGEE	06-2041	110-R4 *	0	1,518.00	1,518	0	0	-	-
	TOTAL ACCOUNT 330				23,590,058.24	19,271,100	4,318,958	144,624	0.61	29.9
340.00	RIGHTS OF WAY DAN RIVER	06-2052	60-R4 *	0	7,693.00	4,126	3,567	383	4.98	9.3
	TOTAL ACCOUNT 340				7,693.00	4,126	3,567	383	4.98	9.3
350.00	RIGHTS OF WAY									
	OFFICE FURNITURE AND EQUIPMENT	80-R4	0	163,057,492.39	77,455,417	85,602,075	1,673,327	1,03	51.2	
	STORES EQUIPMENT	80-R3	0	8,830,280.42	1,619,402	7,210,878	11,290	1.25	65.4	
	TOOLS, SHOP AND GARAGE EQUIPMENT	80-R3	0	561,560.42	272,504	289,056	7,656	1.36	37.8	
	LABORATORY EQUIPMENT	60-R3	0	550,127.03	230,404	319,723	8,256	1.50	38.7	
	COMMUNICATION EQUIPMENT	60-R3	0	165.00	76	89	2	1.21	44.5	
	MISCELLANEOUS EQUIPMENT									
	TOTAL DEPENDABLE LAND RIGHTS				199,557,773.76	101,480,509	98,077,264	1,960,710	0.98	50.0
	RESERVE ADJUSTMENT FOR AMORTIZATION									
391.00	OFFICE FURNITURE AND EQUIPMENT									
	OFFICE FURNITURE AND EQUIPMENT - EDP				5,456,682					
	STORES EQUIPMENT				33,431,263					
	TOOLS, SHOP AND GARAGE EQUIPMENT				2,552,355					
	LABORATORY EQUIPMENT				(510,479)					
	COMMUNICATION EQUIPMENT				182,044					
	MISCELLANEOUS EQUIPMENT				(196,882)					
	TOTAL DEPENDABLE PLANT				(5,756,654)					
	TOTAL DEPRECIALE PLANT				(760,708)					
	TOTAL DEPRECIALE PLANT				69,537,093					
	TOTAL DEPRECIALE PLANT				(13,907,418)					
	TOTAL DEPRECIALE PLANT				39,401,694,071.08	15,342,058,726	28,479,234,470	1,227,601,475	3.12	23.2

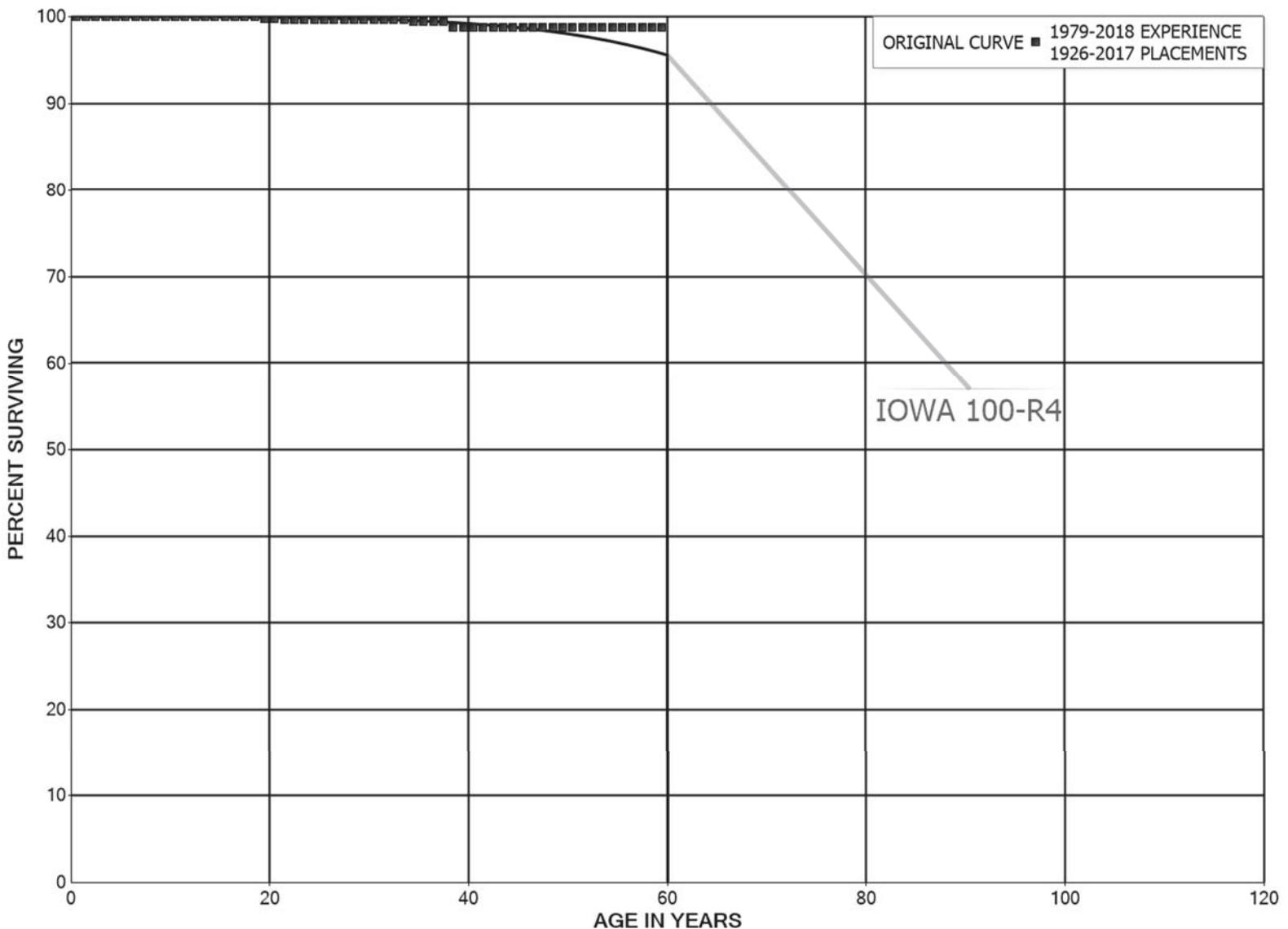
DUKE ENERGY CAROLINAS
TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES AS OF DECEMBER 31, 2018

ACCOUNT (1)	PROBABLE RETIREMENT DATE (2)	SURVIVOR CURVE (3)	NET SALVAGE PERCENT (4)	ORIGINAL COST AS OF DECEMBER 31, 2018 (5)	BOOK RESERVE (6)	FUTURE ACCRUALS (7)	ANNUAL ACCRUAL RATE (8)	CALCULATED ANNUAL ACCRUAL RATE (9)=(8)/(5)	COMPOSITE REMAINING LIFE (10)=(7)/(5)
NONDEPRECIABLE PLANT									
302.00				10,582,513.97				820,643	
302.01				51,514.00				51,514	
303.00				881,801,467.56				599,494,055	
303.10				77,334,560.26				9,458,747	
303.02				16,980,814.09				(62,316)	
310.00				26,928,990.69					
317.00				886,984,100.65					
320.00				2,084,901.52					
326.00				(333,080,604.95)					
330.00				28,756,791.34				17.851	
340.00				9,356,078.64					
347.00				14,776,081.47					
350.00				33,315,866.21				(290,072)	
360.00				54,389,762.82				(223,616)	
389.00				62,366,844.64				(1,561)	
399.00				(931,335.11)					
TOTAL NONDEPRECIABLE PLANT									
				1,771,668,347.80				609,285,245	
ACCOUNTS NOT STUDIED									
352.99	STRUCTURES AND IMPROVEMENTS - IMPAIRMENT			(4,692,470.50)					
353.99	STATION EQUIPMENT - IMPAIRMENT			(9,531,580.93)					
334.99	TOWERS AND FIXTURES - IMPAIRMENT			(146,639.71)					
355.99	POLES AND FIXTURES - IMPAIRMENT			(146,639.63)					
356.99	OVERHEAD CONDUCTORS AND DEVICES - IMPAIRMENT			(146,639.68)					
TOTAL ACCOUNTS NOT STUDIED									
				(14,663,970.45)					
TOTAL ELECTRIC PLANT									
				41,158,688,448.43				15,951,323.971	
								28,479,234.470	
									1,522,801,475
Accrual rates for the Clemson Combined Heat and Power Plant when placed in service will be as follows:									
	Account				Rate				
	341.00				2.82				
	342.00				2.88				
	343.00				2.95				
	344.00				2.94				
	345.00				3.33				
	346.00				3.12				
Accrual rates for new Battery Storage Assets based on a 15-1.3 survivor curve and 0% net salvage will be as follows:									
	Account				Rate				
	348.00				6.90				
	351.00				6.90				
	363.00				6.90				

* Curve shown is interim survivor curve. Each facility in the account is assigned an individual probable retirement year.
 ** Annual Accrual Amount calculated based on remaining amortization period of 14.58 years (August 2033 which is 15 years from implementation).
 *** 5 year Amortization of Adjusted Reserve related to implementation of Amortization Accounting.

PART VII. SERVICE LIFE STATISTICS

DUKE ENERGY CAROLINAS
ACCOUNT 310 RIGHTS OF WAY
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 310 RIGHTS OF WAY

ORIGINAL LIFE TABLE

PLACEMENT BAND 1926-2017

EXPERIENCE BAND 1979-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	18,445		0.0000	1.0000	100.00
0.5	18,445		0.0000	1.0000	100.00
1.5	12,342		0.0000	1.0000	100.00
2.5	557		0.0000	1.0000	100.00
3.5	80,820		0.0000	1.0000	100.00
4.5	1,412,609		0.0000	1.0000	100.00
5.5	1,543,884		0.0000	1.0000	100.00
6.5	1,543,884		0.0000	1.0000	100.00
7.5	1,543,884		0.0000	1.0000	100.00
8.5	1,543,884		0.0000	1.0000	100.00
9.5	1,543,884		0.0000	1.0000	100.00
10.5	1,548,955		0.0000	1.0000	100.00
11.5	1,601,768		0.0000	1.0000	100.00
12.5	1,607,774		0.0000	1.0000	100.00
13.5	1,607,774		0.0000	1.0000	100.00
14.5	1,609,464		0.0000	1.0000	100.00
15.5	2,062,100		0.0000	1.0000	100.00
16.5	2,066,100		0.0000	1.0000	100.00
17.5	2,066,100		0.0000	1.0000	100.00
18.5	2,068,856	6,006	0.0029	0.9971	100.00
19.5	2,062,850		0.0000	1.0000	99.71
20.5	2,062,850	1,690	0.0008	0.9992	99.71
21.5	2,061,369		0.0000	1.0000	99.63
22.5	2,061,796		0.0000	1.0000	99.63
23.5	2,061,796		0.0000	1.0000	99.63
24.5	2,061,796	500	0.0002	0.9998	99.63
25.5	2,061,296		0.0000	1.0000	99.60
26.5	2,061,296		0.0000	1.0000	99.60
27.5	2,061,296		0.0000	1.0000	99.60
28.5	2,061,296		0.0000	1.0000	99.60
29.5	2,061,296		0.0000	1.0000	99.60
30.5	2,064,604		0.0000	1.0000	99.60
31.5	2,079,367		0.0000	1.0000	99.60
32.5	2,081,904		0.0000	1.0000	99.60
33.5	2,081,904	5,071	0.0024	0.9976	99.60
34.5	2,076,833		0.0000	1.0000	99.36
35.5	2,076,833		0.0000	1.0000	99.36
36.5	2,072,833		0.0000	1.0000	99.36
37.5	2,072,833	14,309	0.0069	0.9931	99.36
38.5	2,058,524		0.0000	1.0000	98.68

DUKE ENERGY CAROLINAS

ACCOUNT 310 RIGHTS OF WAY

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1926-2017			EXPERIENCE BAND 1979-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,058,524		0.0000	1.0000	98.68
40.5	2,058,524		0.0000	1.0000	98.68
41.5	2,058,524		0.0000	1.0000	98.68
42.5	2,007,258		0.0000	1.0000	98.68
43.5	1,930,995		0.0000	1.0000	98.68
44.5	463,447		0.0000	1.0000	98.68
45.5	463,447		0.0000	1.0000	98.68
46.5	463,447		0.0000	1.0000	98.68
47.5	461,900		0.0000	1.0000	98.68
48.5	461,900		0.0000	1.0000	98.68
49.5	461,900		0.0000	1.0000	98.68
50.5	461,900		0.0000	1.0000	98.68
51.5	461,900		0.0000	1.0000	98.68
52.5	461,900		0.0000	1.0000	98.68
53.5	9,264		0.0000	1.0000	98.68
54.5	6,908		0.0000	1.0000	98.68
55.5	6,908		0.0000	1.0000	98.68
56.5	6,908		0.0000	1.0000	98.68
57.5	6,908		0.0000	1.0000	98.68
58.5	6,908		0.0000	1.0000	98.68
59.5	6,908		0.0000	1.0000	98.68
60.5	6,908		0.0000	1.0000	98.68
61.5	6,908		0.0000	1.0000	98.68
62.5	6,706		0.0000	1.0000	98.68
63.5	6,252		0.0000	1.0000	98.68
64.5	3,215		0.0000	1.0000	98.68
65.5	3,215		0.0000	1.0000	98.68
66.5	3,215		0.0000	1.0000	98.68
67.5	3,215		0.0000	1.0000	98.68
68.5	109		0.0000	1.0000	98.68
69.5	109		0.0000	1.0000	98.68
70.5	109		0.0000	1.0000	98.68
71.5	109		0.0000	1.0000	98.68
72.5	109		0.0000	1.0000	98.68
73.5	109		0.0000	1.0000	98.68
74.5	109		0.0000	1.0000	98.68
75.5	109		0.0000	1.0000	98.68
76.5	109		0.0000	1.0000	98.68
77.5	109		0.0000	1.0000	98.68
78.5	109		0.0000	1.0000	98.68

DUKE ENERGY CAROLINAS

ACCOUNT 310 RIGHTS OF WAY

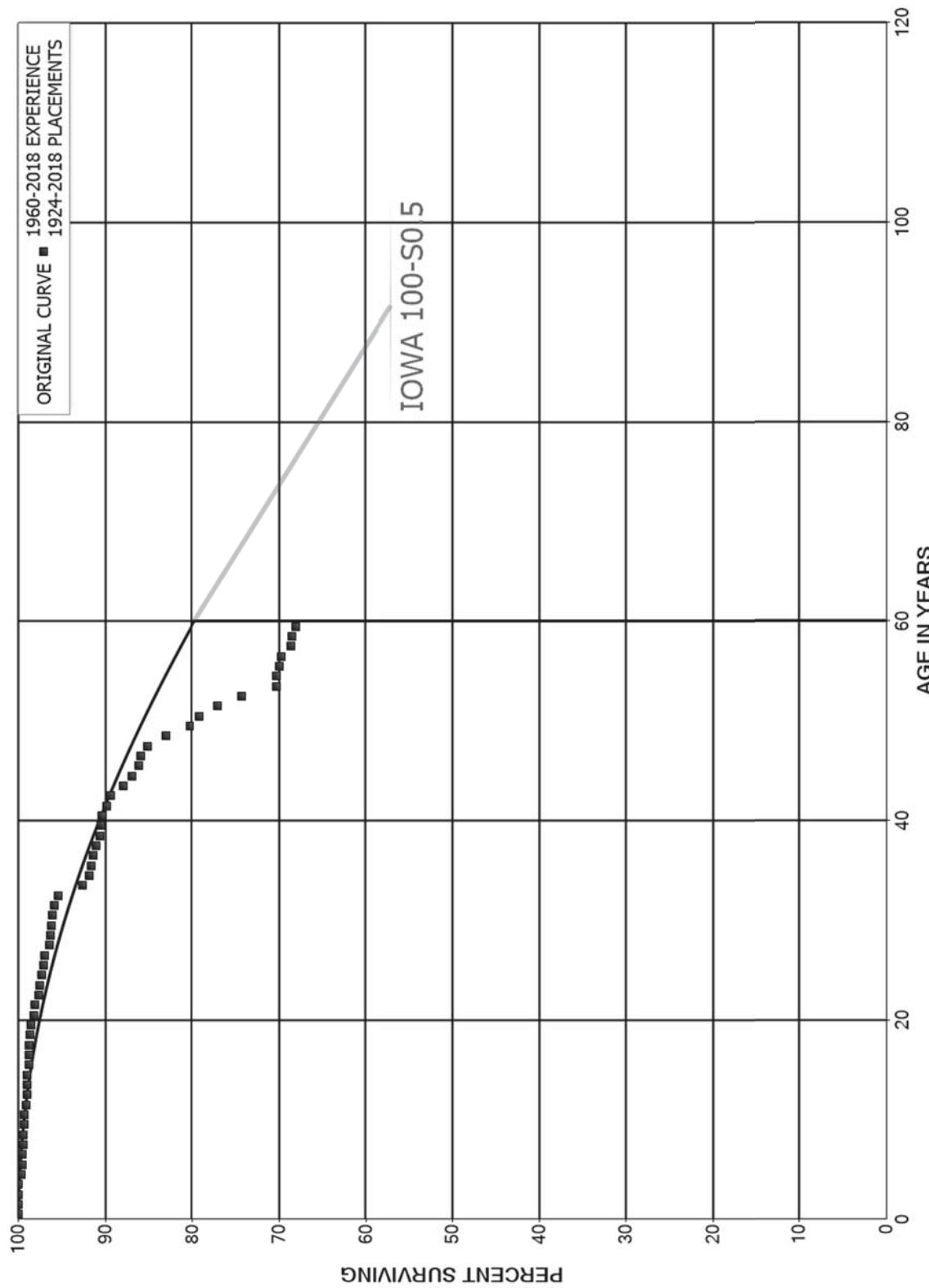
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1926-2017

EXPERIENCE BAND 1979-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	109	0.0000	1.0000	98.68	
80.5	109	0.0000	1.0000	98.68	
81.5	109	0.0000	1.0000	98.68	
82.5	109	0.0000	1.0000	98.68	
83.5	109	0.0000	1.0000	98.68	
84.5	109	0.0000	1.0000	98.68	
85.5	109	0.0000	1.0000	98.68	
86.5	109	0.0000	1.0000	98.68	
87.5					98.68

DUKE ENERGY CAROLINAS
ACCOUNT 311 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL					PCT SURV BEGIN OF INTERVAL
0.0	1,092,473,959	28,296	0.0000	1.0000	100.00
0.5	786,389,070	152,895	0.0002	0.9998	100.00
1.5	748,294,900	518,508	0.0007	0.9993	99.98
2.5	725,542,401	71,650	0.0001	0.9999	99.91
3.5	707,342,168	1,649,758	0.0023	0.9977	99.90
4.5	701,053,250	1,367,733	0.0020	0.9980	99.67
5.5	711,327,598	71,711	0.0001	0.9999	99.47
6.5	550,645,736	154,240	0.0003	0.9997	99.46
7.5	527,137,552	495,204	0.0009	0.9991	99.43
8.5	476,129,024	32,926	0.0001	0.9999	99.34
9.5	428,564,601	62,715	0.0001	0.9999	99.33
10.5	418,133,225	1,146,296	0.0027	0.9973	99.32
11.5	416,766,018	394,402	0.0009	0.9991	99.05
12.5	401,153,545	71,103	0.0002	0.9998	98.95
13.5	395,145,207	42,372	0.0001	0.9999	98.94
14.5	392,611,387	906,232	0.0023	0.9977	98.92
15.5	238,959,307	30,797	0.0001	0.9999	98.70
16.5	222,705,557	25,304	0.0001	0.9999	98.68
17.5	221,969,950	47,620	0.0002	0.9998	98.67
18.5	219,564,853	234,059	0.0011	0.9989	98.65
19.5	218,083,154	758,160	0.0035	0.9965	98.55
20.5	210,915,227	358,943	0.0017	0.9983	98.20
21.5	203,321,007	789,949	0.0039	0.9961	98.04
22.5	197,783,079	284,168	0.0014	0.9986	97.66
23.5	187,401,534	448,773	0.0024	0.9976	97.51
24.5	184,800,203	352,725	0.0019	0.9981	97.28
25.5	181,162,215	257,600	0.0014	0.9986	97.10
26.5	175,047,837	989,215	0.0057	0.9943	96.96
27.5	174,580,533	154,153	0.0009	0.9991	96.41
28.5	173,800,893	232,698	0.0013	0.9987	96.32
29.5	175,064,672	270,014	0.0015	0.9985	96.20
30.5	173,736,051	391,939	0.0023	0.9977	96.05
31.5	173,240,173	759,359	0.0044	0.9956	95.83
32.5	170,333,990	4,954,245	0.0291	0.9709	95.41
33.5	165,350,386	1,415,497	0.0086	0.9914	92.64
34.5	163,645,030	476,469	0.0029	0.9971	91.84
35.5	162,304,944	397,685	0.0025	0.9975	91.58
36.5	161,199,369	496,578	0.0031	0.9969	91.35
37.5	158,644,212	701,422	0.0044	0.9956	91.07
38.5	157,542,284	267,080	0.0017	0.9983	90.67

DUKE ENERGY CAROLINAS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	154,277,437	220,423	0.0014	0.9986	90.51
40.5	150,209,284	921,840	0.0061	0.9939	90.38
41.5	148,600,308	710,582	0.0048	0.9952	89.83
42.5	145,362,352	2,351,255	0.0162	0.9838	89.40
43.5	117,954,691	1,362,889	0.0116	0.9884	87.95
44.5	93,552,704	876,565	0.0094	0.9906	86.94
45.5	88,141,832	163,737	0.0019	0.9981	86.12
46.5	75,745,460	724,548	0.0096	0.9904	85.96
47.5	74,499,659	1,826,256	0.0245	0.9755	85.14
48.5	67,731,938	2,284,263	0.0337	0.9663	83.05
49.5	59,608,872	775,424	0.0130	0.9870	80.25
50.5	58,833,448	1,578,624	0.0268	0.9732	79.21
51.5	57,230,635	2,055,208	0.0359	0.9641	77.08
52.5	52,375,531	2,812,569	0.0537	0.9463	74.31
53.5	46,391,732	48,492	0.0010	0.9990	70.32
54.5	46,319,326	236,703	0.0051	0.9949	70.25
55.5	46,065,558	90,594	0.0020	0.9980	69.89
56.5	45,946,150	741,429	0.0161	0.9839	69.75
57.5	39,359,603	82,194	0.0021	0.9979	68.63
58.5	36,559,958	241,798	0.0066	0.9934	68.49
59.5	27,596,564	87,670	0.0032	0.9968	68.03
60.5	20,461,197	99,626	0.0049	0.9951	67.82
61.5	11,703,077	15,594	0.0013	0.9987	67.49
62.5	10,367,096		0.0000	1.0000	67.40
63.5	9,251,383		0.0000	1.0000	67.40
64.5	7,256,624	8,525	0.0012	0.9988	67.40
65.5	7,248,099		0.0000	1.0000	67.32
66.5	7,248,099	20,000	0.0028	0.9972	67.32
67.5	4,616,745	656	0.0001	0.9999	67.13
68.5	4,616,089	14,699	0.0032	0.9968	67.12
69.5	4,601,390	180,000	0.0391	0.9609	66.91
70.5	4,421,390	1,662	0.0004	0.9996	64.29
71.5	4,037,551		0.0000	1.0000	64.27
72.5	2,563,114	813	0.0003	0.9997	64.27
73.5	2,562,301		0.0000	1.0000	64.25
74.5	2,562,301	32,570	0.0127	0.9873	64.25
75.5	2,126,904		0.0000	1.0000	63.43
76.5	2,126,904		0.0000	1.0000	63.43
77.5	2,126,904	9,822	0.0046	0.9954	63.43
78.5	2,117,082		0.0000	1.0000	63.14

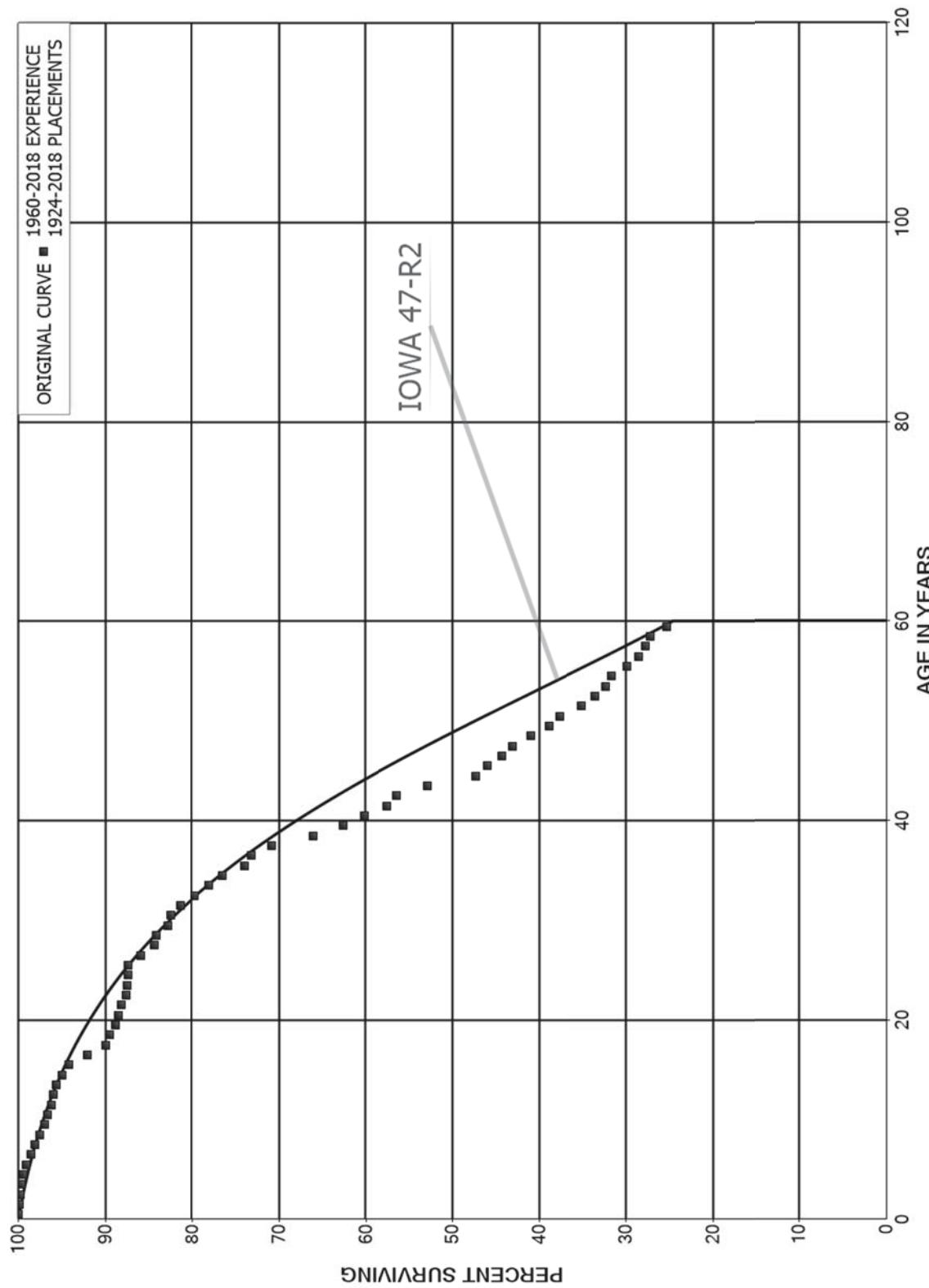
DUKE ENERGY CAROLINAS

ACCOUNT 311 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,117,082		0.0000	1.0000	63.14
80.5	2,117,082		0.0000	1.0000	63.14
81.5	2,117,082	9,221	0.0044	0.9956	63.14
82.5	2,107,861		0.0000	1.0000	62.86
83.5	761,648	267	0.0003	0.9997	62.86
84.5	761,382		0.0000	1.0000	62.84
85.5	761,382		0.0000	1.0000	62.84
86.5	761,382		0.0000	1.0000	62.84
87.5					62.84

DUKE ENERGY CAROLINAS
ACCOUNT 312 BOILER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	6,445,846,732	699,837	0.0001	0.9999	100.00
0.5	6,180,514,858	8,082,232	0.0013	0.9987	99.99
1.5	6,055,822,487	5,948,990	0.0010	0.9990	99.86
2.5	5,921,825,096	6,285,715	0.0011	0.9989	99.76
3.5	5,808,267,639	12,401,411	0.0021	0.9979	99.65
4.5	5,745,803,121	18,889,695	0.0033	0.9967	99.44
5.5	5,592,027,253	36,158,265	0.0065	0.9935	99.11
6.5	4,459,350,786	17,238,799	0.0039	0.9961	98.47
7.5	4,361,767,182	26,052,774	0.0060	0.9940	98.09
8.5	3,710,664,239	19,922,453	0.0054	0.9946	97.51
9.5	3,131,752,104	11,270,566	0.0036	0.9964	96.98
10.5	2,440,023,300	10,635,339	0.0044	0.9956	96.63
11.5	1,880,637,199	5,305,662	0.0028	0.9972	96.21
12.5	1,772,372,735	6,703,215	0.0038	0.9962	95.94
13.5	1,724,335,422	12,255,061	0.0071	0.9929	95.58
14.5	1,675,815,043	12,239,975	0.0073	0.9927	94.90
15.5	1,330,315,136	29,674,013	0.0223	0.9777	94.21
16.5	1,167,572,754	27,403,569	0.0235	0.9765	92.11
17.5	1,110,007,896	5,470,148	0.0049	0.9951	89.94
18.5	1,029,801,462	7,685,193	0.0075	0.9925	89.50
19.5	947,927,707	4,053,341	0.0043	0.9957	88.83
20.5	894,272,825	2,682,018	0.0030	0.9970	88.45
21.5	854,753,078	5,567,787	0.0065	0.9935	88.19
22.5	759,917,828	641,246	0.0008	0.9992	87.61
23.5	716,792,047	1,189,697	0.0017	0.9983	87.54
24.5	699,965,499	364,364	0.0005	0.9995	87.39
25.5	680,888,621	11,209,760	0.0165	0.9835	87.35
26.5	648,241,996	11,592,414	0.0179	0.9821	85.91
27.5	620,783,841	1,466,049	0.0024	0.9976	84.37
28.5	588,899,903	9,506,762	0.0161	0.9839	84.17
29.5	543,109,771	2,365,582	0.0044	0.9956	82.82
30.5	525,838,936	6,914,906	0.0132	0.9868	82.45
31.5	505,040,923	10,544,529	0.0209	0.9791	81.37
32.5	489,092,670	10,044,484	0.0205	0.9795	79.67
33.5	471,763,282	9,068,717	0.0192	0.9808	78.04
34.5	457,671,776	15,794,522	0.0345	0.9655	76.54
35.5	435,267,824	4,050,136	0.0093	0.9907	73.89
36.5	428,353,115	13,675,006	0.0319	0.9681	73.21
37.5	406,980,537	27,439,891	0.0674	0.9326	70.87
38.5	375,740,396	19,716,915	0.0525	0.9475	66.09

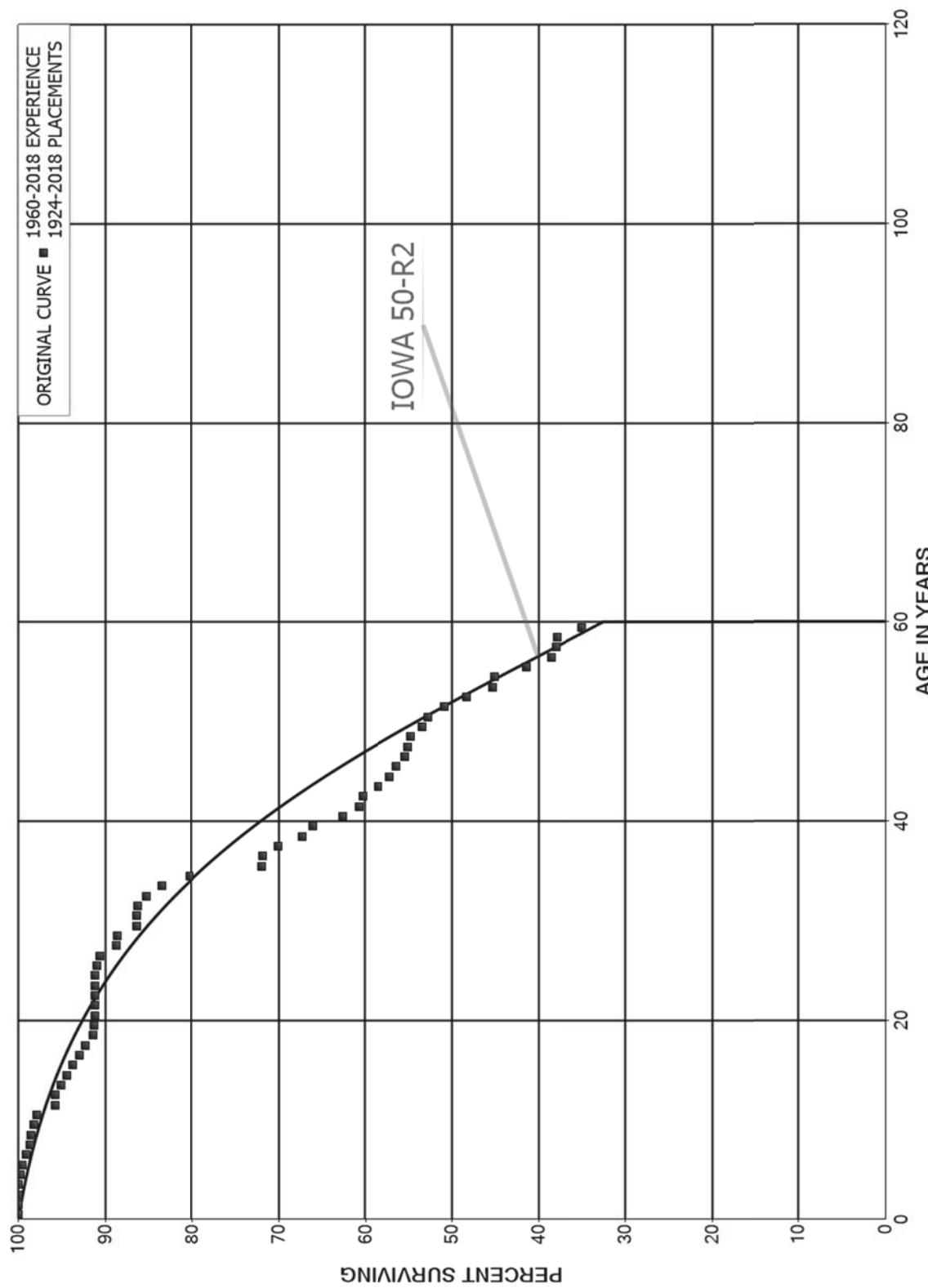
DUKE ENERGY CAROLINAS

ACCOUNT 312 BOILER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	355,828,909	14,074,970	0.0396	0.9604	62.62
40.5	323,970,367	14,432,682	0.0445	0.9555	60.15
41.5	291,674,418	5,477,331	0.0188	0.9812	57.47
42.5	284,002,220	17,852,750	0.0629	0.9371	56.39
43.5	209,496,042	22,075,911	0.1054	0.8946	52.84
44.5	156,005,910	4,256,380	0.0273	0.9727	47.27
45.5	140,666,436	5,349,806	0.0380	0.9620	45.98
46.5	111,803,533	2,971,467	0.0266	0.9734	44.24
47.5	106,988,877	5,158,811	0.0482	0.9518	43.06
48.5	89,681,273	4,602,009	0.0513	0.9487	40.98
49.5	75,529,025	2,483,461	0.0329	0.9671	38.88
50.5	73,438,360	4,913,593	0.0669	0.9331	37.60
51.5	69,735,590	3,067,581	0.0440	0.9560	35.09
52.5	57,961,886	2,079,407	0.0359	0.9641	33.54
53.5	49,939,344	1,100,175	0.0220	0.9780	32.34
54.5	48,142,268	2,686,148	0.0558	0.9442	31.63
55.5	45,172,453	2,038,705	0.0451	0.9549	29.86
56.5	43,006,697	1,121,162	0.0261	0.9739	28.51
57.5	32,306,591	685,570	0.0212	0.9788	27.77
58.5	30,102,004	2,100,990	0.0698	0.9302	27.18
59.5	21,785,856	230,149	0.0106	0.9894	25.28
60.5	13,788,493	155,552	0.0113	0.9887	25.02
61.5	10,183,735		0.0000	1.0000	24.74
62.5	7,469,173	57,495	0.0077	0.9923	24.74
63.5	1,675,521		0.0000	1.0000	24.55
64.5	615,470		0.0000	1.0000	24.55
65.5	615,470	5,398	0.0088	0.9912	24.55
66.5	605,977		0.0000	1.0000	24.33
67.5	605,977	4,837	0.0080	0.9920	24.33
68.5	601,140	250,640	0.4169	0.5831	24.14
69.5	350,500		0.0000	1.0000	14.07
70.5	350,500		0.0000	1.0000	14.07
71.5	350,500		0.0000	1.0000	14.07
72.5					14.07

DUKE ENERGY CAROLINAS
ACCOUNT 314 TURBOGENERATOR UNITS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 314 TURBOGENERATOR UNITS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,216,020,407	266,768	0.0002	0.9998	100.00
0.5	1,173,906,332	337,605	0.0003	0.9997	99.98
1.5	1,089,795,463	441,471	0.0004	0.9996	99.95
2.5	1,012,974,961	88,274	0.0001	0.9999	99.91
3.5	952,331,613	1,988,701	0.0021	0.9979	99.90
4.5	929,251,247	1,889,512	0.0020	0.9980	99.69
5.5	894,139,273	3,675,090	0.0041	0.9959	99.49
6.5	625,654,528	2,971,802	0.0047	0.9953	99.08
7.5	608,483,243	838,258	0.0014	0.9986	98.61
8.5	529,994,410	1,654,142	0.0031	0.9969	98.47
9.5	480,650,312	1,556,025	0.0032	0.9968	98.17
10.5	467,319,986	9,934,474	0.0213	0.9787	97.85
11.5	454,704,671	460,843	0.0010	0.9990	95.77
12.5	429,922,000	2,648,784	0.0062	0.9938	95.67
13.5	420,113,779	3,244,878	0.0077	0.9923	95.08
14.5	396,918,247	2,397,026	0.0060	0.9940	94.35
15.5	384,573,859	3,527,825	0.0092	0.9908	93.78
16.5	377,169,222	2,453,030	0.0065	0.9935	92.92
17.5	357,391,376	3,715,964	0.0104	0.9896	92.31
18.5	328,771,869	383,837	0.0012	0.9988	91.35
19.5	322,061,042	93,572	0.0003	0.9997	91.25
20.5	308,452,646	65,740	0.0002	0.9998	91.22
21.5	305,945,858	126,024	0.0004	0.9996	91.20
22.5	282,942,464	25,711	0.0001	0.9999	91.16
23.5	272,732,653	76,287	0.0003	0.9997	91.15
24.5	269,077,770	465,402	0.0017	0.9983	91.13
25.5	262,460,549	1,046,641	0.0040	0.9960	90.97
26.5	259,332,535	5,455,901	0.0210	0.9790	90.61
27.5	249,225,237	292,855	0.0012	0.9988	88.70
28.5	244,688,017	5,984,703	0.0245	0.9755	88.60
29.5	231,992,868	409	0.0000	1.0000	86.43
30.5	230,443,941	364,857	0.0016	0.9984	86.43
31.5	228,067,227	2,534,517	0.0111	0.9889	86.29
32.5	225,269,897	4,916,058	0.0218	0.9782	85.34
33.5	221,465,454	8,476,708	0.0383	0.9617	83.47
34.5	212,209,122	21,856,349	0.1030	0.8970	80.28
35.5	190,850,714	327,082	0.0017	0.9983	72.01
36.5	190,502,273	4,841,387	0.0254	0.9746	71.89
37.5	184,946,931	7,318,702	0.0396	0.9604	70.06
38.5	179,320,154	3,388,177	0.0189	0.9811	67.29

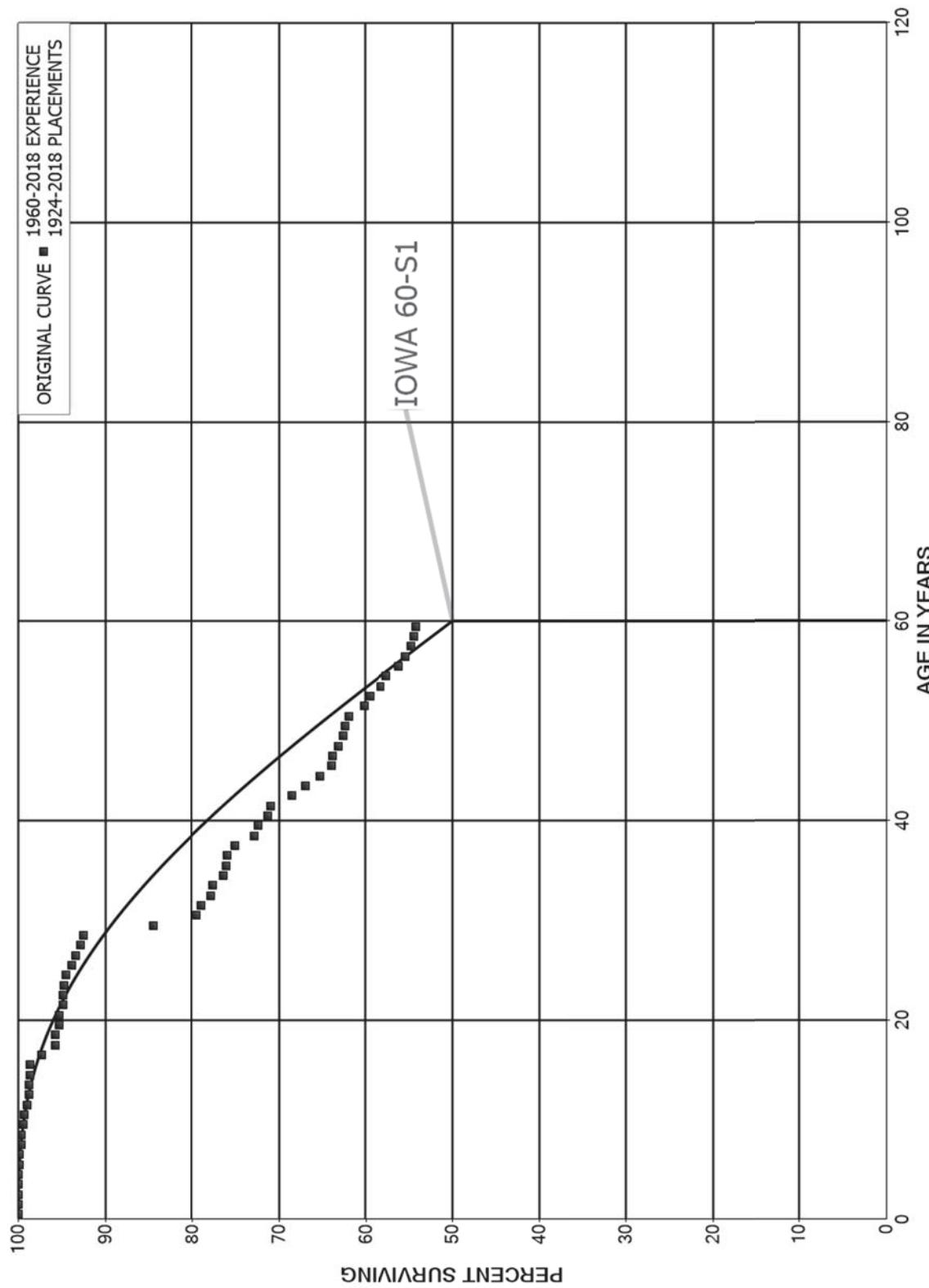
DUKE ENERGY CAROLINAS

ACCOUNT 314 TURBOGENERATOR UNITS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	178,222,246	9,156,575	0.0514	0.9486	66.02
40.5	167,209,242	5,037,642	0.0301	0.9699	62.62
41.5	156,467,508	1,213,011	0.0078	0.9922	60.74
42.5	153,624,269	4,434,256	0.0289	0.9711	60.27
43.5	138,715,572	3,105,300	0.0224	0.9776	58.53
44.5	127,184,694	1,865,470	0.0147	0.9853	57.22
45.5	124,810,224	2,073,489	0.0166	0.9834	56.38
46.5	108,189,592	630,295	0.0058	0.9942	55.44
47.5	107,540,138	680,071	0.0063	0.9937	55.12
48.5	99,544,866	2,591,725	0.0260	0.9740	54.77
49.5	88,859,550	1,113,412	0.0125	0.9875	53.34
50.5	88,084,781	3,126,185	0.0355	0.9645	52.68
51.5	85,497,247	4,302,418	0.0503	0.9497	50.81
52.5	74,799,251	4,545,371	0.0608	0.9392	48.25
53.5	68,249,805	460,983	0.0068	0.9932	45.32
54.5	67,970,919	5,401,118	0.0795	0.9205	45.01
55.5	62,568,177	4,355,719	0.0696	0.9304	41.43
56.5	58,123,271	943,530	0.0162	0.9838	38.55
57.5	50,086,214	120,145	0.0024	0.9976	37.92
58.5	46,284,518	3,520,395	0.0761	0.9239	37.83
59.5	33,448,872	161,734	0.0048	0.9952	34.96
60.5	21,627,781	87,087	0.0040	0.9960	34.79
61.5	9,741,009		0.0000	1.0000	34.65
62.5	9,126,964	155,440	0.0170	0.9830	34.65
63.5	3,837,158		0.0000	1.0000	34.06
64.5	2,441,797		0.0000	1.0000	34.06
65.5	2,441,797		0.0000	1.0000	34.06
66.5	2,441,797	73,584	0.0301	0.9699	34.06
67.5	2,368,213		0.0000	1.0000	33.03
68.5	2,368,213	723,227	0.3054	0.6946	33.03
69.5	1,644,986	967,392	0.5881	0.4119	22.94
70.5	677,594		0.0000	1.0000	9.45
71.5	677,594		0.0000	1.0000	9.45
72.5					9.45

DUKE ENERGY CAROLINAS
ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	519,659,747		0.0000	1.0000	100.00
0.5	517,397,994	14,038	0.0000	1.0000	100.00
1.5	515,573,409	303,909	0.0006	0.9994	100.00
2.5	508,232,683	91,914	0.0002	0.9998	99.94
3.5	493,487,957	124,082	0.0003	0.9997	99.92
4.5	492,988,343	319,769	0.0006	0.9994	99.90
5.5	489,574,885	76,155	0.0002	0.9998	99.83
6.5	335,829,468	580,643	0.0017	0.9983	99.81
7.5	334,006,487	126,734	0.0004	0.9996	99.64
8.5	326,919,611	519,411	0.0016	0.9984	99.60
9.5	325,940,437	463,348	0.0014	0.9986	99.45
10.5	317,966,283	1,258,270	0.0040	0.9960	99.30
11.5	316,234,083	585,990	0.0019	0.9981	98.91
12.5	308,395,670	177,203	0.0006	0.9994	98.73
13.5	304,881,365	237,291	0.0008	0.9992	98.67
14.5	271,201,929	63,419	0.0002	0.9998	98.60
15.5	263,577,807	3,352,875	0.0127	0.9873	98.57
16.5	256,257,293	4,095,438	0.0160	0.9840	97.32
17.5	251,148,840	89,836	0.0004	0.9996	95.76
18.5	246,184,224	1,011,293	0.0041	0.9959	95.73
19.5	227,057,826	54,056	0.0002	0.9998	95.34
20.5	223,971,710	1,153,573	0.0052	0.9948	95.31
21.5	185,882,035	71,583	0.0004	0.9996	94.82
22.5	158,895,123	114,515	0.0007	0.9993	94.79
23.5	139,637,859	272,498	0.0020	0.9980	94.72
24.5	119,136,986	886,046	0.0074	0.9926	94.53
25.5	106,195,681	504,870	0.0048	0.9952	93.83
26.5	104,127,699	639,376	0.0061	0.9939	93.38
27.5	83,551,835	264,085	0.0032	0.9968	92.81
28.5	80,759,231	7,022,060	0.0870	0.9130	92.52
29.5	66,189,143	3,881,363	0.0586	0.9414	84.47
30.5	60,515,324	438,707	0.0072	0.9928	79.52
31.5	59,856,328	869,044	0.0145	0.9855	78.94
32.5	58,864,502	143,737	0.0024	0.9976	77.80
33.5	58,735,206	925,930	0.0158	0.9842	77.61
34.5	56,831,518	256,546	0.0045	0.9955	76.38
35.5	56,288,058	66,690	0.0012	0.9988	76.04
36.5	55,959,254	643,536	0.0115	0.9885	75.95
37.5	55,274,387	1,618,232	0.0293	0.9707	75.07
38.5	54,051,709	366,161	0.0068	0.9932	72.88

DUKE ENERGY CAROLINAS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	53,657,253	819,032	0.0153	0.9847	72.38
40.5	51,006,379	262,836	0.0052	0.9948	71.28
41.5	48,957,932	1,676,516	0.0342	0.9658	70.91
42.5	46,355,540	1,018,336	0.0220	0.9780	68.48
43.5	35,177,210	871,156	0.0248	0.9752	66.98
44.5	29,569,617	599,072	0.0203	0.9797	65.32
45.5	26,934,024	88,630	0.0033	0.9967	64.00
46.5	21,825,799	220,643	0.0101	0.9899	63.79
47.5	21,316,653	184,458	0.0087	0.9913	63.14
48.5	17,424,007	56,969	0.0033	0.9967	62.59
49.5	14,592,227	103,595	0.0071	0.9929	62.39
50.5	14,713,747	426,314	0.0290	0.9710	61.95
51.5	14,514,517	165,519	0.0114	0.9886	60.15
52.5	12,589,669	249,651	0.0198	0.9802	59.47
53.5	11,415,114	131,733	0.0115	0.9885	58.29
54.5	11,363,861	294,450	0.0259	0.9741	57.61
55.5	11,065,187	152,226	0.0138	0.9862	56.12
56.5	10,859,351	122,913	0.0113	0.9887	55.35
57.5	9,248,738	62,404	0.0067	0.9933	54.72
58.5	8,057,361	20,206	0.0025	0.9975	54.35
59.5	5,625,167	89,529	0.0159	0.9841	54.22
60.5	4,066,084	2,536	0.0006	0.9994	53.35
61.5	2,232,324	3,575	0.0016	0.9984	53.32
62.5	1,623,761		0.0000	1.0000	53.24
63.5	684,499	59,140	0.0864	0.9136	53.24
64.5	475,621		0.0000	1.0000	48.64
65.5	475,621		0.0000	1.0000	48.64
66.5	475,621	24,074	0.0506	0.9494	48.64
67.5	451,547	1,556	0.0034	0.9966	46.17
68.5	449,991	45,072	0.1002	0.8998	46.01
69.5	404,919	12,494	0.0309	0.9691	41.41
70.5	392,425		0.0000	1.0000	40.13
71.5	392,425		0.0000	1.0000	40.13
72.5	309,007		0.0000	1.0000	40.13
73.5	309,007		0.0000	1.0000	40.13
74.5	309,007		0.0000	1.0000	40.13
75.5	168,790		0.0000	1.0000	40.13
76.5	168,790		0.0000	1.0000	40.13
77.5	168,790		0.0000	1.0000	40.13
78.5	168,790		0.0000	1.0000	40.13

DUKE ENERGY CAROLINAS

ACCOUNT 315 ACCESSORY ELECTRIC EQUIPMENT

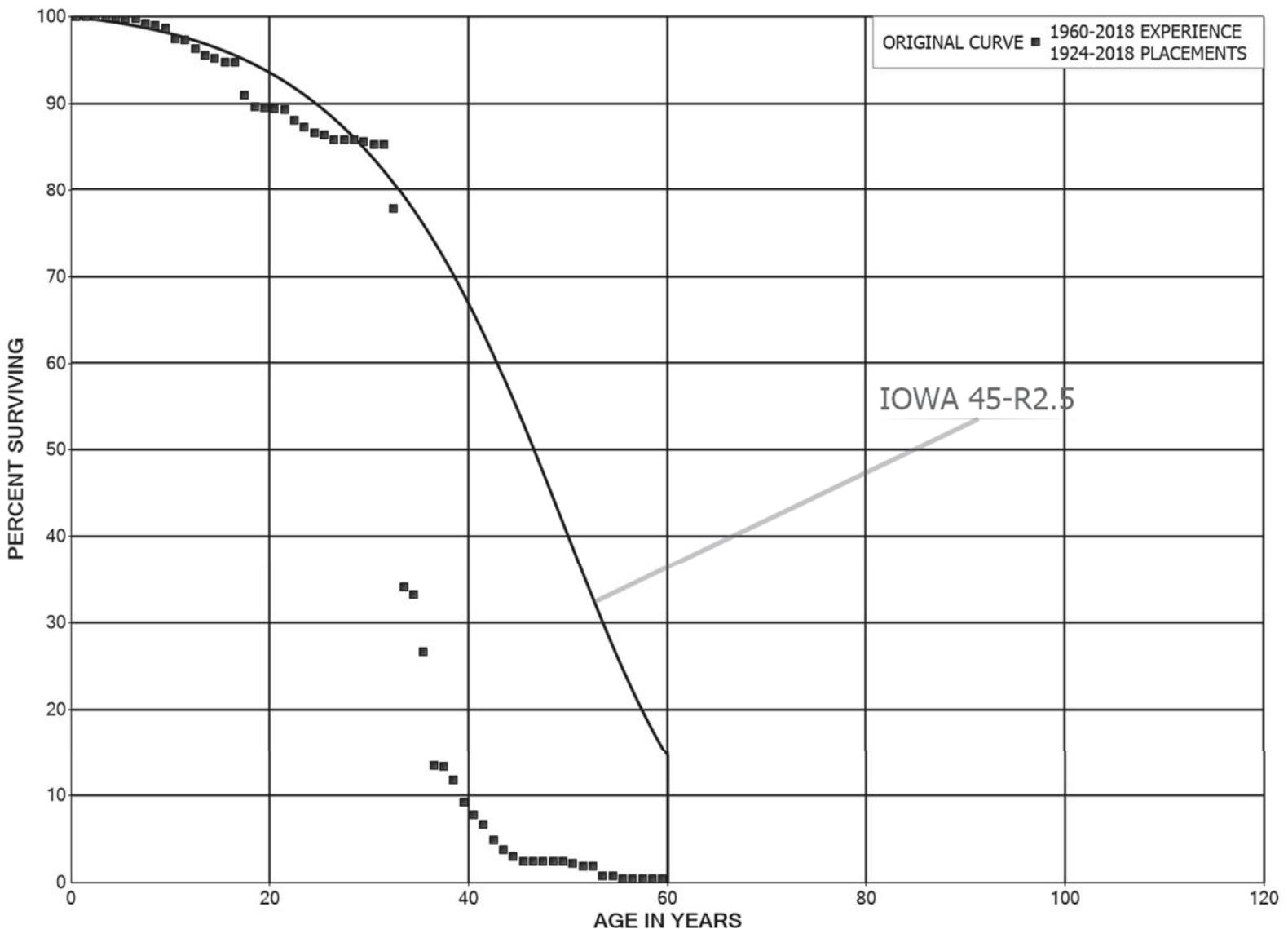
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018

EXPERIENCE BAND 1960-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	168,790		0.0000	1.0000	40.13
80.5	168,790		0.0000	1.0000	40.13
81.5	168,790		0.0000	1.0000	40.13
82.5	168,790		0.0000	1.0000	40.13
83.5					40.13

DUKE ENERGY CAROLINAS
ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

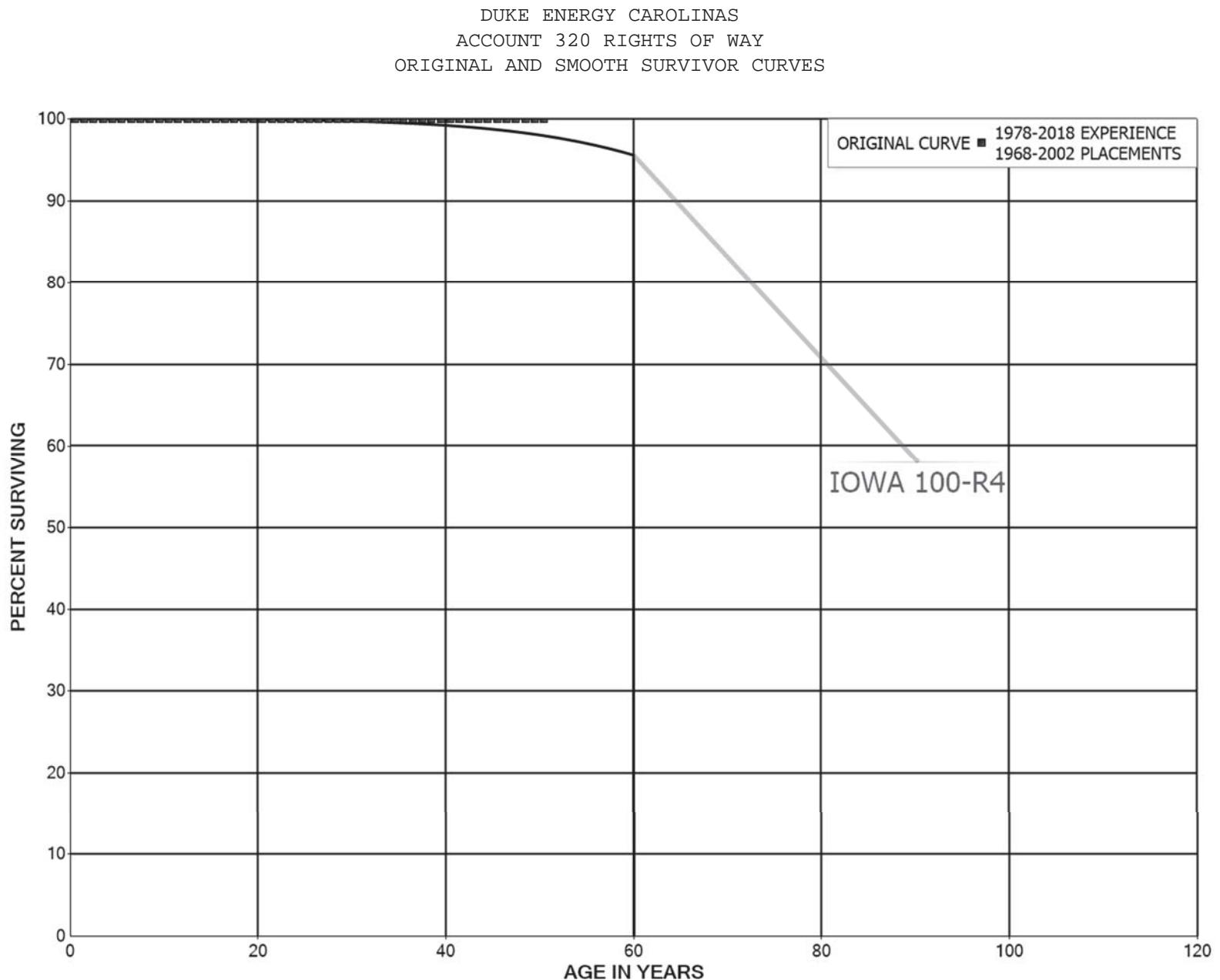
PLACEMENT BAND 1924-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	436,718,070	466	0.0000	1.0000	100.00
0.5	432,099,853	7,867	0.0000	1.0000	100.00
1.5	417,460,320	121,286	0.0003	0.9997	100.00
2.5	404,712,058	282,423	0.0007	0.9993	99.97
3.5	388,606,209	389,750	0.0010	0.9990	99.90
4.5	378,410,770	180,366	0.0005	0.9995	99.80
5.5	373,840,378	108,771	0.0003	0.9997	99.75
6.5	108,141,540	595,060	0.0055	0.9945	99.72
7.5	103,063,255	206,455	0.0020	0.9980	99.17
8.5	99,863,625	364,987	0.0037	0.9963	98.98
9.5	96,681,518	1,144,148	0.0118	0.9882	98.61
10.5	89,016,963	172,273	0.0019	0.9981	97.45
11.5	86,517,776	818,068	0.0095	0.9905	97.26
12.5	82,625,883	719,671	0.0087	0.9913	96.34
13.5	79,874,042	287,235	0.0036	0.9964	95.50
14.5	76,689,390	333,171	0.0043	0.9957	95.16
15.5	74,216,672	49,534	0.0007	0.9993	94.74
16.5	72,586,573	2,884,195	0.0397	0.9603	94.68
17.5	68,273,812	1,003,688	0.0147	0.9853	90.92
18.5	62,593,280	66,556	0.0011	0.9989	89.58
19.5	55,917,713	51,807	0.0009	0.9991	89.49
20.5	50,254,906	54,669	0.0011	0.9989	89.40
21.5	47,323,013	663,510	0.0140	0.9860	89.30
22.5	44,843,186	384,567	0.0086	0.9914	88.05
23.5	42,156,330	314,223	0.0075	0.9925	87.30
24.5	29,600,608	82,992	0.0028	0.9972	86.65
25.5	26,574,311	162,070	0.0061	0.9939	86.40
26.5	23,855,952	14,958	0.0006	0.9994	85.88
27.5	22,735,609	5,143	0.0002	0.9998	85.82
28.5	21,877,722	46,197	0.0021	0.9979	85.80
29.5	20,844,668	76,804	0.0037	0.9963	85.62
30.5	19,203,639	12,344	0.0006	0.9994	85.31
31.5	18,575,487	1,627,304	0.0876	0.9124	85.25
32.5	16,318,871	9,163,762	0.5615	0.4385	77.78
33.5	6,989,330	196,797	0.0282	0.9718	34.10
34.5	6,542,386	1,284,420	0.1963	0.8037	33.14
35.5	5,043,634	2,511,288	0.4979	0.5021	26.64
36.5	2,419,558	21,158	0.0087	0.9913	13.37
37.5	1,878,576	220,073	0.1171	0.8829	13.26
38.5	1,772,103	386,061	0.2179	0.7821	11.70

DUKE ENERGY CAROLINAS

ACCOUNT 316 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,603,323	259,747	0.1620	0.8380	9.15
40.5	1,291,145	176,880	0.1370	0.8630	7.67
41.5	897,038	236,757	0.2639	0.7361	6.62
42.5	599,112	140,210	0.2340	0.7660	4.87
43.5	458,902	95,181	0.2074	0.7926	3.73
44.5	363,721	71,728	0.1972	0.8028	2.96
45.5	291,993		0.0000	1.0000	2.38
46.5	291,993		0.0000	1.0000	2.38
47.5	291,993	750	0.0026	0.9974	2.38
48.5	291,243		0.0000	1.0000	2.37
49.5	291,243	26,639	0.0915	0.9085	2.37
50.5	292,458	36,151	0.1236	0.8764	2.15
51.5	289,732		0.0000	1.0000	1.89
52.5	261,878	160,784	0.6140	0.3860	1.89
53.5	67,669		0.0000	1.0000	0.73
54.5	67,669	30,401	0.4493	0.5507	0.73
55.5	37,268		0.0000	1.0000	0.40
56.5	37,268		0.0000	1.0000	0.40
57.5	37,268		0.0000	1.0000	0.40
58.5	37,268	4,544	0.1219	0.8781	0.40
59.5	32,724		0.0000	1.0000	0.35
60.5	32,724		0.0000	1.0000	0.35
61.5	32,724		0.0000	1.0000	0.35
62.5	32,724	32,724	1.0000		0.35
63.5					



DUKE ENERGY CAROLINAS

ACCOUNT 320 RIGHTS OF WAY

ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2002			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	489,270		0.0000	1.0000	100.00
0.5	489,270		0.0000	1.0000	100.00
1.5	531,029		0.0000	1.0000	100.00
2.5	532,109		0.0000	1.0000	100.00
3.5	534,724		0.0000	1.0000	100.00
4.5	946,622		0.0000	1.0000	100.00
5.5	945,542		0.0000	1.0000	100.00
6.5	945,542		0.0000	1.0000	100.00
7.5	540,439		0.0000	1.0000	100.00
8.5	540,439		0.0000	1.0000	100.00
9.5	533,644		0.0000	1.0000	100.00
10.5	533,644		0.0000	1.0000	100.00
11.5	533,644		0.0000	1.0000	100.00
12.5	956,032		0.0000	1.0000	100.00
13.5	956,032		0.0000	1.0000	100.00
14.5	956,032		0.0000	1.0000	100.00
15.5	956,032		0.0000	1.0000	100.00
16.5	881,365		0.0000	1.0000	100.00
17.5	881,365		0.0000	1.0000	100.00
18.5	881,365		0.0000	1.0000	100.00
19.5	881,365		0.0000	1.0000	100.00
20.5	881,365		0.0000	1.0000	100.00
21.5	881,365		0.0000	1.0000	100.00
22.5	881,365		0.0000	1.0000	100.00
23.5	881,365		0.0000	1.0000	100.00
24.5	881,365		0.0000	1.0000	100.00
25.5	881,365		0.0000	1.0000	100.00
26.5	881,365		0.0000	1.0000	100.00
27.5	881,365		0.0000	1.0000	100.00
28.5	881,365		0.0000	1.0000	100.00
29.5	881,365		0.0000	1.0000	100.00
30.5	881,365		0.0000	1.0000	100.00
31.5	881,365		0.0000	1.0000	100.00
32.5	881,365		0.0000	1.0000	100.00
33.5	499,885		0.0000	1.0000	100.00
34.5	499,885		0.0000	1.0000	100.00
35.5	499,885		0.0000	1.0000	100.00
36.5	499,885		0.0000	1.0000	100.00
37.5	425,003		0.0000	1.0000	100.00
38.5	425,003		0.0000	1.0000	100.00

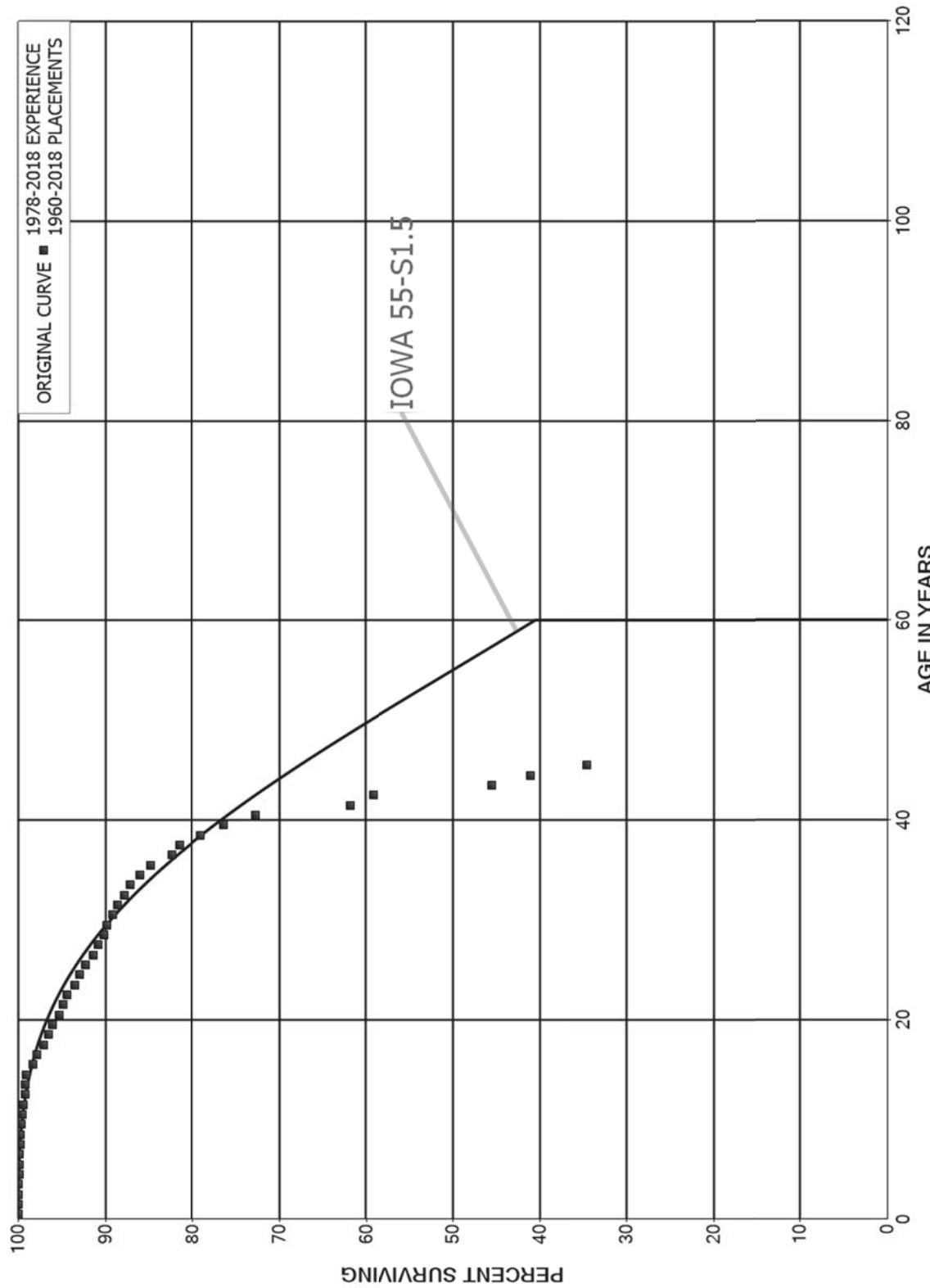
DUKE ENERGY CAROLINAS

ACCOUNT 320 RIGHTS OF WAY

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2002			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	425,003		0.0000	1.0000	100.00
40.5	425,003		0.0000	1.0000	100.00
41.5	425,003		0.0000	1.0000	100.00
42.5	425,003		0.0000	1.0000	100.00
43.5	425,003		0.0000	1.0000	100.00
44.5	422,388		0.0000	1.0000	100.00
45.5	422,388		0.0000	1.0000	100.00
46.5	422,388		0.0000	1.0000	100.00
47.5	422,388		0.0000	1.0000	100.00
48.5	422,388		0.0000	1.0000	100.00
49.5	422,388		0.0000	1.0000	100.00
50.5					100.00

DUKE ENERGY CAROLINAS
ACCOUNT 321 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1978-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	1,956,688,926	54	0.0000	1.0000	100.00
0.5	1,932,918,423	12,136	0.0000	1.0000	100.00
1.5	1,894,800,685	317,282	0.0002	0.9998	100.00
2.5	1,784,901,283	1,483,208	0.0008	0.9992	99.98
3.5	1,752,675,969	543,089	0.0003	0.9997	99.90
4.5	1,733,717,823	433,497	0.0003	0.9997	99.87
5.5	1,585,967,033	420,276	0.0003	0.9997	99.84
6.5	1,543,751,698	617,848	0.0004	0.9996	99.82
7.5	1,408,474,496	1,163,746	0.0008	0.9992	99.78
8.5	1,373,668,818	1,636,500	0.0012	0.9988	99.69
9.5	1,309,581,865	1,172,984	0.0009	0.9991	99.58
10.5	1,280,928,590	1,029,972	0.0008	0.9992	99.49
11.5	1,228,601,845	2,750,576	0.0022	0.9978	99.41
12.5	1,174,889,896	699,448	0.0006	0.9994	99.18
13.5	1,153,734,961	1,099,041	0.0010	0.9990	99.13
14.5	1,118,158,226	7,853,697	0.0070	0.9930	99.03
15.5	1,093,663,506	6,137,477	0.0056	0.9944	98.34
16.5	1,079,098,125	8,167,042	0.0076	0.9924	97.78
17.5	1,065,148,410	6,095,105	0.0057	0.9943	97.04
18.5	1,050,582,157	4,505,645	0.0043	0.9957	96.49
19.5	1,044,138,187	9,028,049	0.0086	0.9914	96.07
20.5	1,014,235,494	4,928,300	0.0049	0.9951	95.24
21.5	1,005,965,658	3,583,381	0.0036	0.9964	94.78
22.5	1,000,539,544	9,742,200	0.0097	0.9903	94.44
23.5	983,213,830	6,640,731	0.0068	0.9932	93.52
24.5	972,556,132	6,744,142	0.0069	0.9931	92.89
25.5	957,148,855	9,363,978	0.0098	0.9902	92.25
26.5	940,579,449	5,556,892	0.0059	0.9941	91.35
27.5	921,800,168	6,192,434	0.0067	0.9933	90.81
28.5	912,007,788	4,148,716	0.0045	0.9955	90.20
29.5	870,639,566	6,197,018	0.0071	0.9929	89.79
30.5	851,294,421	4,744,462	0.0056	0.9944	89.15
31.5	831,599,061	7,562,204	0.0091	0.9909	88.65
32.5	634,272,570	5,139,874	0.0081	0.9919	87.84
33.5	523,356,714	6,147,659	0.0117	0.9883	87.13
34.5	305,213,652	4,425,036	0.0145	0.9855	86.11
35.5	286,028,081	8,156,665	0.0285	0.9715	84.86
36.5	272,523,266	3,217,049	0.0118	0.9882	82.44
37.5	76,232,374	2,221,715	0.0291	0.9709	81.47
38.5	73,854,067	2,522,574	0.0342	0.9658	79.09

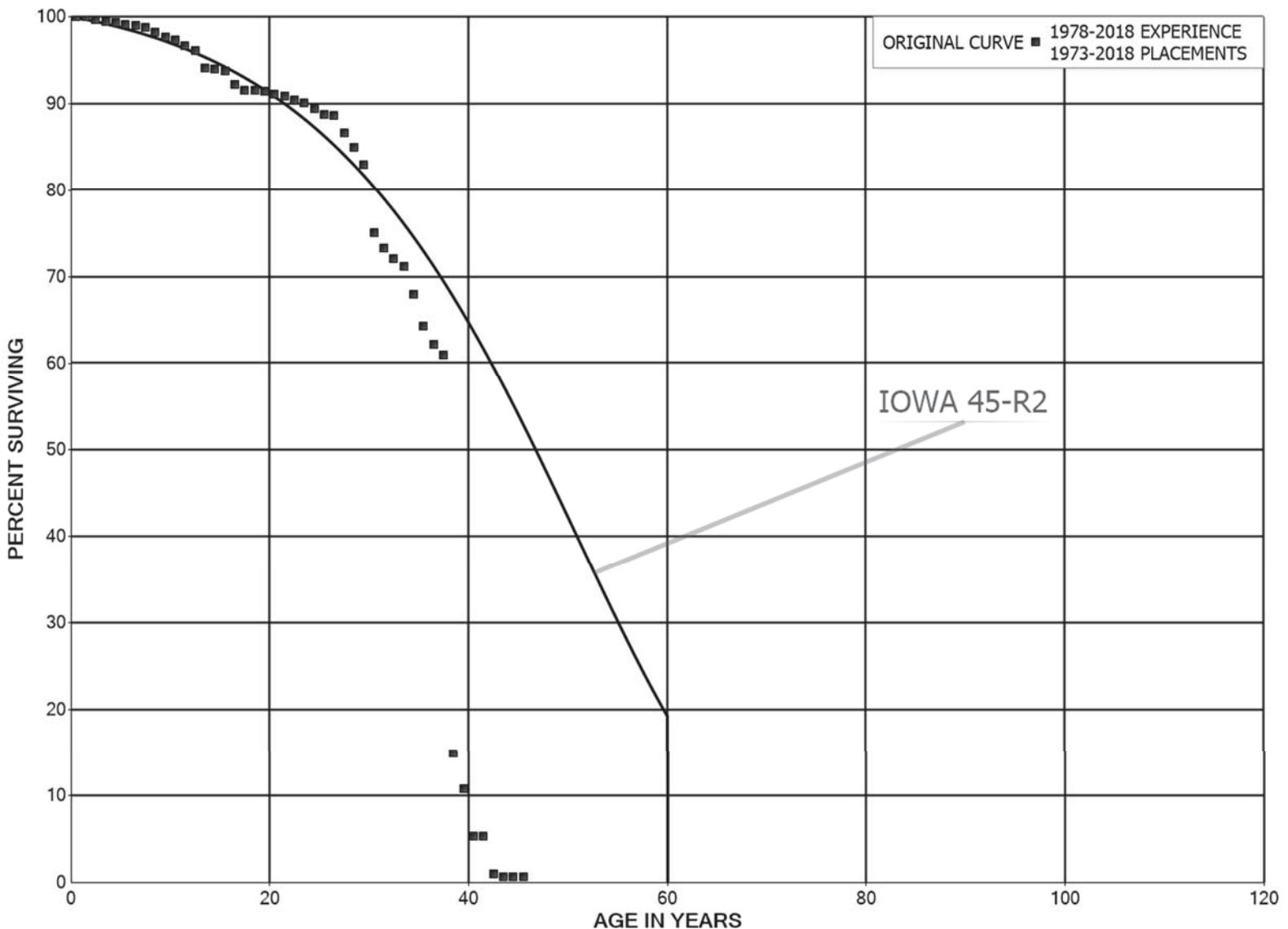
DUKE ENERGY CAROLINAS

ACCOUNT 321 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	70,869,078	3,360,479	0.0474	0.9526	76.39
40.5	67,080,486	10,044,950	0.1497	0.8503	72.77
41.5	54,132,346	2,396,912	0.0443	0.9557	61.87
42.5	50,919,210	11,772,850	0.2312	0.7688	59.13
43.5	38,954,053	3,763,139	0.0966	0.9034	45.46
44.5	11,644,379	1,863,498	0.1600	0.8400	41.07
45.5					34.50

DUKE ENERGY CAROLINAS
ACCOUNT 322 REACTOR PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 322 REACTOR PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1973-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,294,158,256	21,212	0.0000	1.0000	100.00
0.5	4,196,336,958	2,558,296	0.0006	0.9994	100.00
1.5	4,116,817,718	11,813,356	0.0029	0.9971	99.94
2.5	4,019,722,055	12,279,498	0.0031	0.9969	99.65
3.5	3,693,883,157	1,816,396	0.0005	0.9995	99.35
4.5	3,584,913,540	7,450,960	0.0021	0.9979	99.30
5.5	3,407,858,814	5,349,893	0.0016	0.9984	99.09
6.5	3,266,010,889	7,571,474	0.0023	0.9977	98.94
7.5	3,032,705,503	17,087,672	0.0056	0.9944	98.71
8.5	2,916,783,718	15,322,513	0.0053	0.9947	98.15
9.5	2,840,919,396	9,437,434	0.0033	0.9967	97.64
10.5	2,774,956,309	20,365,238	0.0073	0.9927	97.31
11.5	2,692,210,978	15,355,817	0.0057	0.9943	96.60
12.5	2,629,388,149	55,608,033	0.0211	0.9789	96.05
13.5	2,535,940,118	620,597	0.0002	0.9998	94.01
14.5	2,203,561,680	5,865,069	0.0027	0.9973	93.99
15.5	2,036,364,608	35,082,273	0.0172	0.9828	93.74
16.5	1,962,380,690	12,590,866	0.0064	0.9936	92.13
17.5	1,932,114,071	1,087,521	0.0006	0.9994	91.54
18.5	1,906,899,134	1,916,446	0.0010	0.9990	91.48
19.5	1,893,235,337	6,443,517	0.0034	0.9966	91.39
20.5	1,878,014,818	4,944,269	0.0026	0.9974	91.08
21.5	1,595,852,772	8,764,965	0.0055	0.9945	90.84
22.5	1,565,219,791	5,560,372	0.0036	0.9964	90.34
23.5	1,554,413,720	10,496,613	0.0068	0.9932	90.02
24.5	1,536,715,139	11,488,031	0.0075	0.9925	89.41
25.5	1,508,356,170	1,631,275	0.0011	0.9989	88.74
26.5	1,491,996,328	33,351,598	0.0224	0.9776	88.65
27.5	1,446,899,139	28,862,624	0.0199	0.9801	86.67
28.5	1,409,352,797	32,430,821	0.0230	0.9770	84.94
29.5	1,364,597,966	130,042,796	0.0953	0.9047	82.98
30.5	1,212,850,386	28,741,588	0.0237	0.9763	75.08
31.5	1,178,746,737	19,096,370	0.0162	0.9838	73.30
32.5	939,594,277	12,294,949	0.0131	0.9869	72.11
33.5	805,977,210	36,923,154	0.0458	0.9542	71.17
34.5	364,842,686	19,209,268	0.0527	0.9473	67.91
35.5	344,434,440	11,289,669	0.0328	0.9672	64.33
36.5	322,600,416	6,344,308	0.0197	0.9803	62.22
37.5	7,794,583	5,893,667	0.7561	0.2439	61.00
38.5	1,280,218	357,320	0.2791	0.7209	14.88

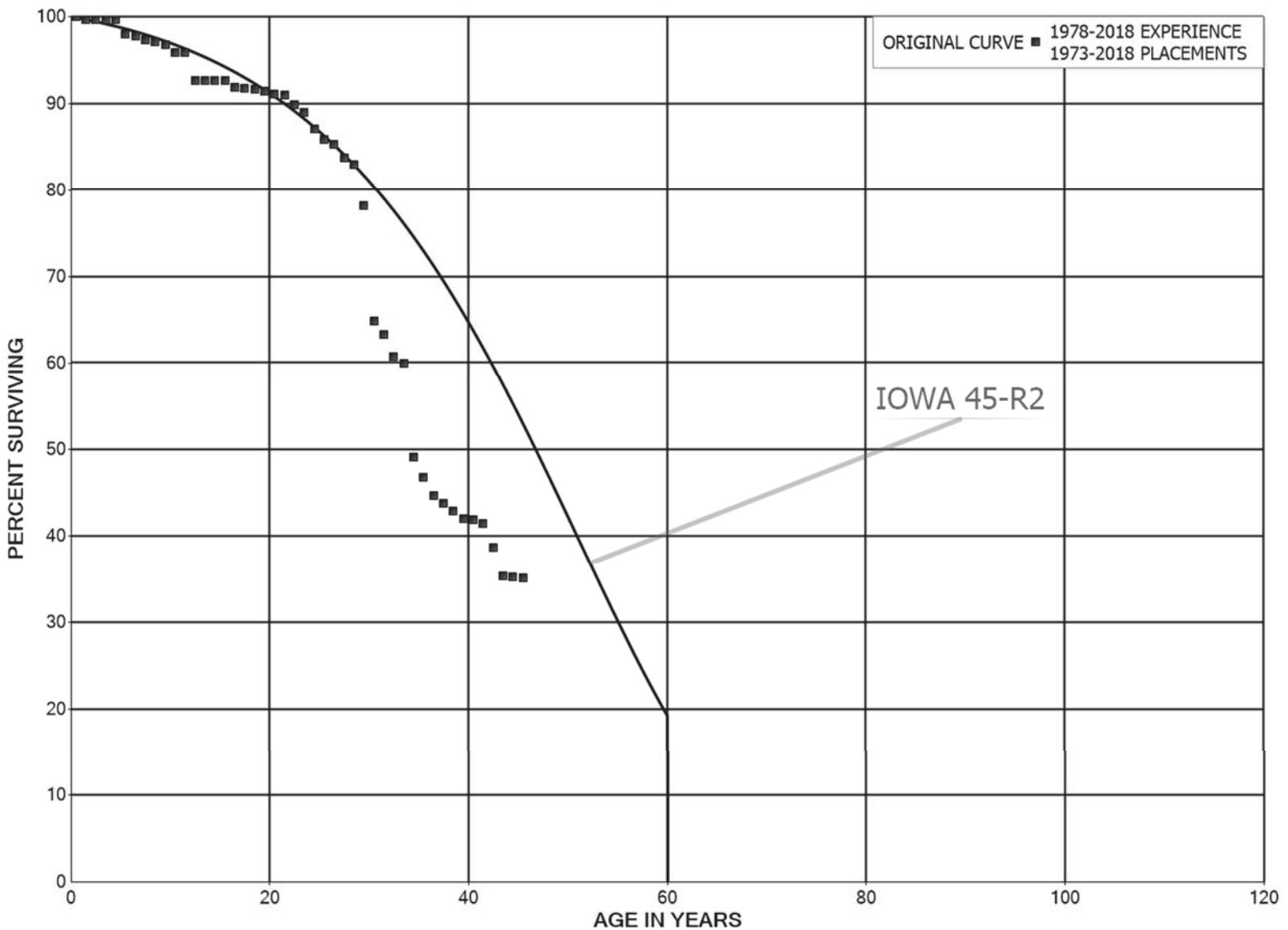
DUKE ENERGY CAROLINAS

ACCOUNT 322 REACTOR PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1973-2018			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	838,303	428,685	0.5114	0.4886	10.72
40.5	392,475		0.0000	1.0000	5.24
41.5	361,109	298,955	0.8279	0.1721	5.24
42.5	62,154	16,649	0.2679	0.7321	0.90
43.5	25,209		0.0000	1.0000	0.66
44.5	2,241		0.0000	1.0000	0.66
45.5					0.66

DUKE ENERGY CAROLINAS
ACCOUNT 323 TURBOGENERATOR UNITS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 323 TURBOGENERATOR UNITS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1973-2018		EXPERIENCE BAND 1978-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,168,615,489	334	0.0000	1.0000	100.00
0.5	1,163,826,138	4,246,119	0.0036	0.9964	100.00
1.5	1,150,804,084	3,270	0.0000	1.0000	99.64
2.5	1,110,771,315	1,226	0.0000	1.0000	99.63
3.5	1,179,065,032	563	0.0000	1.0000	99.63
4.5	1,081,275,060	18,181,104	0.0168	0.9832	99.63
5.5	1,013,432,579	2,863,558	0.0028	0.9972	97.96
6.5	858,345,350	3,669,031	0.0043	0.9957	97.68
7.5	840,452,332	1,315,601	0.0016	0.9984	97.27
8.5	811,058,268	3,195,350	0.0039	0.9961	97.11
9.5	754,199,178	7,256,893	0.0096	0.9904	96.73
10.5	732,943,481	12,594	0.0000	1.0000	95.80
11.5	715,455,535	23,389,530	0.0327	0.9673	95.80
12.5	665,489,904	43	0.0000	1.0000	92.67
13.5	646,077,853	4,378	0.0000	1.0000	92.67
14.5	614,620,494		0.0000	1.0000	92.67
15.5	600,511,633	5,297,847	0.0088	0.9912	92.67
16.5	580,858,808	646,496	0.0011	0.9989	91.85
17.5	572,752,471	580,415	0.0010	0.9990	91.75
18.5	566,686,225	1,413,560	0.0025	0.9975	91.65
19.5	548,670,883	2,000,045	0.0036	0.9964	91.42
20.5	531,473,678	697,696	0.0013	0.9987	91.09
21.5	530,434,639	6,603,526	0.0124	0.9876	90.97
22.5	523,831,113	4,872,415	0.0093	0.9907	89.84
23.5	518,328,551	11,521,872	0.0222	0.9778	89.00
24.5	499,233,071	6,516,071	0.0131	0.9869	87.02
25.5	488,179,206	3,228,927	0.0066	0.9934	85.89
26.5	482,853,348	9,034,947	0.0187	0.9813	85.32
27.5	448,922,146	4,142,854	0.0092	0.9908	83.72
28.5	444,576,026	25,474,936	0.0573	0.9427	82.95
29.5	419,101,090	71,708,393	0.1711	0.8289	78.20
30.5	332,931,622	8,103,211	0.0243	0.9757	64.82
31.5	324,674,707	12,783,395	0.0394	0.9606	63.24
32.5	252,021,195	3,154,624	0.0125	0.9875	60.75
33.5	214,764,992	39,265,065	0.1828	0.8172	59.99
34.5	88,196,523	4,196,416	0.0476	0.9524	49.02
35.5	82,363,586	3,708,650	0.0450	0.9550	46.69
36.5	83,375,186	1,631,209	0.0196	0.9804	44.59
37.5	46,645,153	966,973	0.0207	0.9793	43.72
38.5	45,676,081	855,000	0.0187	0.9813	42.81

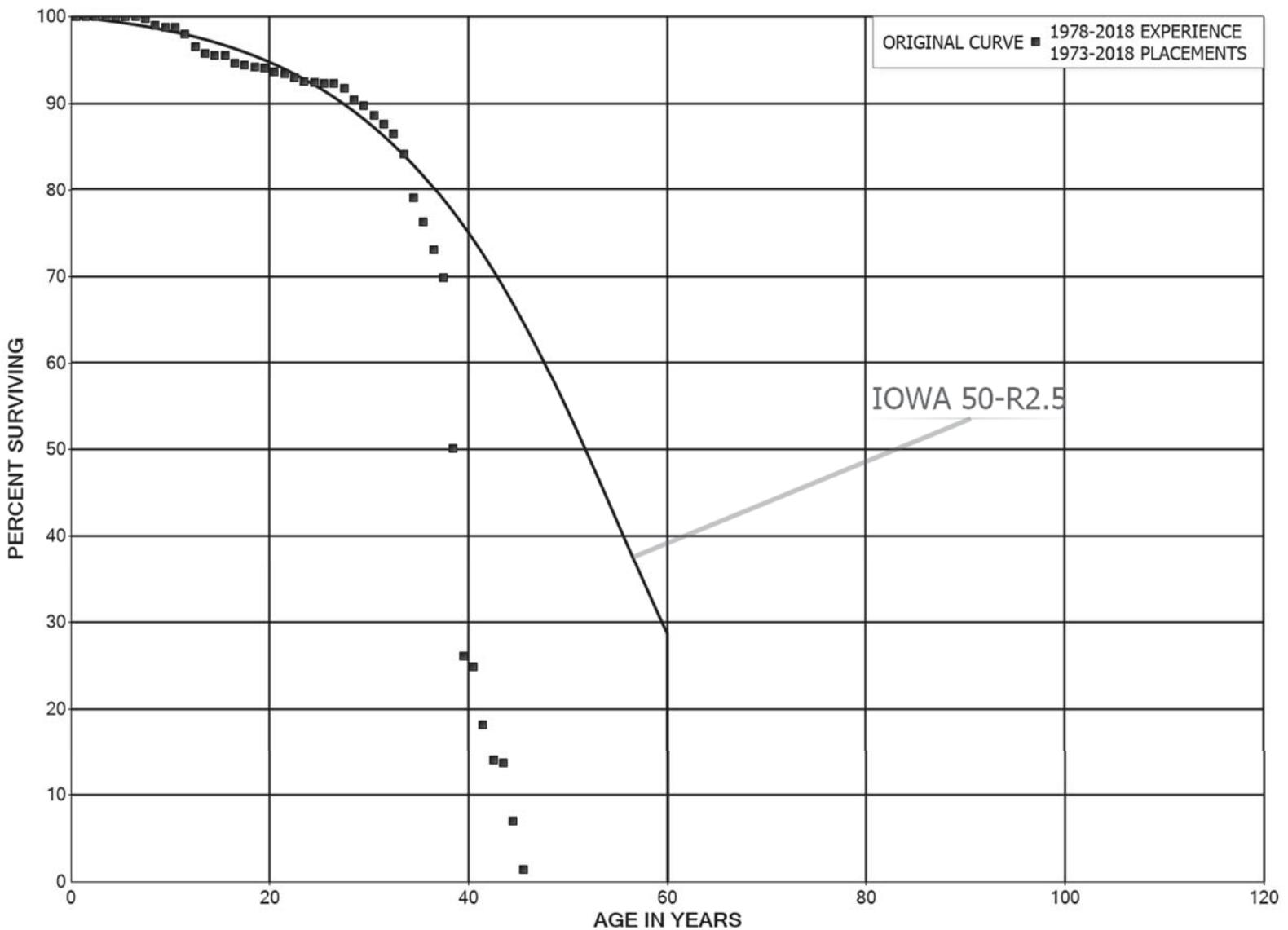
DUKE ENERGY CAROLINAS

ACCOUNT 323 TURBOGENERATOR UNITS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1973-2018			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	43,009,190	133,112	0.0031	0.9969	42.01
40.5	38,149,260	472,058	0.0124	0.9876	41.88
41.5	37,633,106	2,469,072	0.0656	0.9344	41.36
42.5	35,164,035	3,071,600	0.0874	0.9126	38.65
43.5	31,839,986	103,758	0.0033	0.9967	35.27
44.5	12,849,048	28,219	0.0022	0.9978	35.16
45.5					35.08

DUKE ENERGY CAROLINAS
ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1973-2018			EXPERIENCE BAND 1978-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
0.0	1,297,104,989	6,648	0.0000	1.0000	100.00	
0.5	1,223,397,781	6,536	0.0000	1.0000	100.00	
1.5	1,185,366,540	4,786	0.0000	1.0000	100.00	
2.5	1,153,950,852	33,098	0.0000	1.0000	100.00	
3.5	1,052,703,552	144,450	0.0001	0.9999	100.00	
4.5	1,011,963,301	118,481	0.0001	0.9999	99.98	
5.5	574,098,994	341,247	0.0006	0.9994	99.97	
6.5	538,446,845	845,663	0.0016	0.9984	99.91	
7.5	532,452,095	4,112,792	0.0077	0.9923	99.75	
8.5	520,620,356	1,102,844	0.0021	0.9979	98.98	
9.5	502,625,143	134,644	0.0003	0.9997	98.77	
10.5	479,473,477	3,942,454	0.0082	0.9918	98.75	
11.5	442,712,332	6,441,915	0.0146	0.9854	97.94	
12.5	416,981,461	3,165,781	0.0076	0.9924	96.51	
13.5	409,724,890	1,312,290	0.0032	0.9968	95.78	
14.5	400,055,116	10,859	0.0000	1.0000	95.47	
15.5	388,604,262	3,458,684	0.0089	0.9911	95.47	
16.5	377,393,041	873,507	0.0023	0.9977	94.62	
17.5	371,845,938	1,011,765	0.0027	0.9973	94.40	
18.5	369,084,375	233,392	0.0006	0.9994	94.14	
19.5	351,425,420	1,904,142	0.0054	0.9946	94.08	
20.5	345,317,950	844,970	0.0024	0.9976	93.57	
21.5	307,911,644	1,380,029	0.0045	0.9955	93.34	
22.5	305,575,204	1,225,922	0.0040	0.9960	92.93	
23.5	302,805,966	365,962	0.0012	0.9988	92.55	
24.5	301,362,615	353,714	0.0012	0.9988	92.44	
25.5	296,367,426	97,992	0.0003	0.9997	92.33	
26.5	295,573,167	1,994,536	0.0067	0.9933	92.30	
27.5	281,615,951	3,808,097	0.0135	0.9865	91.68	
28.5	277,156,663	2,184,547	0.0079	0.9921	90.44	
29.5	273,604,247	3,373,635	0.0123	0.9877	89.73	
30.5	268,353,353	3,058,909	0.0114	0.9886	88.62	
31.5	263,629,951	3,308,881	0.0126	0.9874	87.61	
32.5	207,717,225	5,652,169	0.0272	0.9728	86.51	
33.5	176,609,216	10,729,290	0.0608	0.9392	84.16	
34.5	106,813,798	3,788,371	0.0355	0.9645	79.04	
35.5	102,286,969	4,239,782	0.0414	0.9586	76.24	
36.5	97,935,702	4,282,799	0.0437	0.9563	73.08	
37.5	35,669,368	10,104,498	0.2833	0.7167	69.88	
38.5	24,422,057	11,729,974	0.4803	0.5197	50.09	

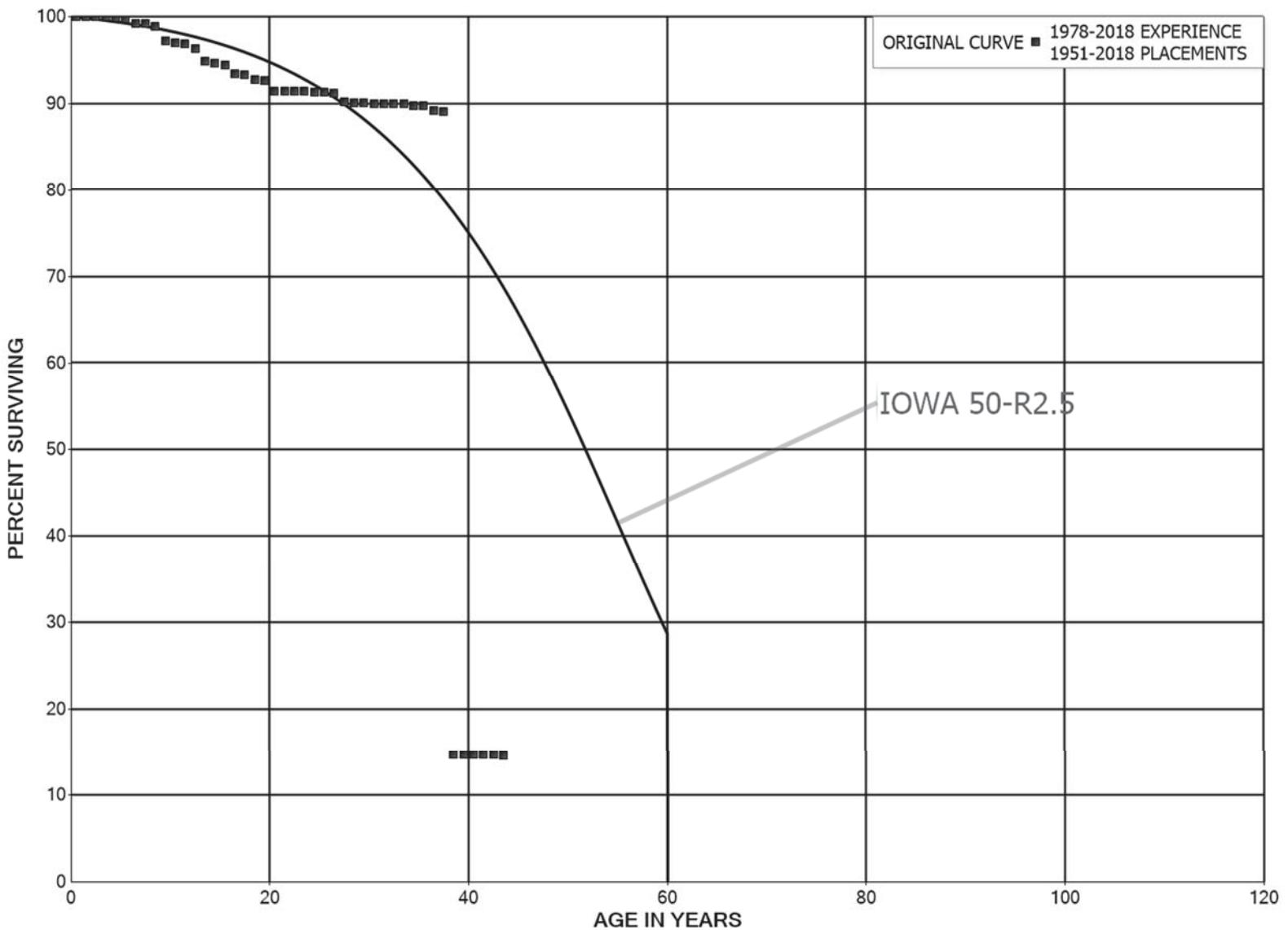
DUKE ENERGY CAROLINAS

ACCOUNT 324 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1973-2018			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	12,582,087	568,260	0.0452	0.9548	26.03
40.5	11,999,764	3,208,643	0.2674	0.7326	24.85
41.5	8,045,243	1,890,903	0.2350	0.7650	18.21
42.5	6,154,340	138,205	0.0225	0.9775	13.93
43.5	6,011,694	2,951,318	0.4909	0.5091	13.62
44.5	2,087,770	1,666,102	0.7980	0.2020	6.93
45.5					1.40

DUKE ENERGY CAROLINAS
ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1951-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	595,905,442	15,374	0.0000	1.0000	100.00
0.5	548,085,003	38,287	0.0001	0.9999	100.00
1.5	505,361,454	97,947	0.0002	0.9998	99.99
2.5	480,509,526	208,733	0.0004	0.9996	99.97
3.5	454,751,874	348,037	0.0008	0.9992	99.93
4.5	431,238,855	632,597	0.0015	0.9985	99.85
5.5	410,302,946	2,132,971	0.0052	0.9948	99.70
6.5	390,483,777	202,779	0.0005	0.9995	99.19
7.5	375,258,303	1,159,513	0.0031	0.9969	99.13
8.5	360,358,458	6,139,015	0.0170	0.9830	98.83
9.5	337,462,416	842,969	0.0025	0.9975	97.14
10.5	326,979,545	63,720	0.0002	0.9998	96.90
11.5	317,167,845	2,031,891	0.0064	0.9936	96.88
12.5	301,527,714	4,459,370	0.0148	0.9852	96.26
13.5	289,659,922	609,422	0.0021	0.9979	94.84
14.5	282,287,602	703,123	0.0025	0.9975	94.64
15.5	274,684,493	2,879,675	0.0105	0.9895	94.40
16.5	263,251,821	255,916	0.0010	0.9990	93.41
17.5	256,322,636	1,611,287	0.0063	0.9937	93.32
18.5	247,662,580	318,785	0.0013	0.9987	92.74
19.5	242,250,102	3,118,808	0.0129	0.9871	92.62
20.5	232,862,113	22,747	0.0001	0.9999	91.42
21.5	222,233,867	80,162	0.0004	0.9996	91.42
22.5	210,491,822	25,691	0.0001	0.9999	91.38
23.5	200,176,252	105,767	0.0005	0.9995	91.37
24.5	183,821,842	37,790	0.0002	0.9998	91.32
25.5	168,727,240	284,008	0.0017	0.9983	91.30
26.5	155,548,211	1,702,142	0.0109	0.9891	91.15
27.5	142,940,514	181,286	0.0013	0.9987	90.15
28.5	126,464,477	33,158	0.0003	0.9997	90.04
29.5	120,742,848	17,649	0.0001	0.9999	90.02
30.5	115,333,303	14,873	0.0001	0.9999	90.00
31.5	109,862,353	34,918	0.0003	0.9997	89.99
32.5	95,483,951	29,264	0.0003	0.9997	89.96
33.5	80,678,617	143,364	0.0018	0.9982	89.93
34.5	58,597,322	58,108	0.0010	0.9990	89.77
35.5	56,468,427	305,630	0.0054	0.9946	89.69
36.5	55,645,964	110,359	0.0020	0.9980	89.20
37.5	14,851,608	12,408,307	0.8355	0.1645	89.02
38.5	2,328,852	6,734	0.0029	0.9971	14.65

DUKE ENERGY CAROLINAS

ACCOUNT 325 MISCELLANEOUS POWER PLANT EQUIPMENT

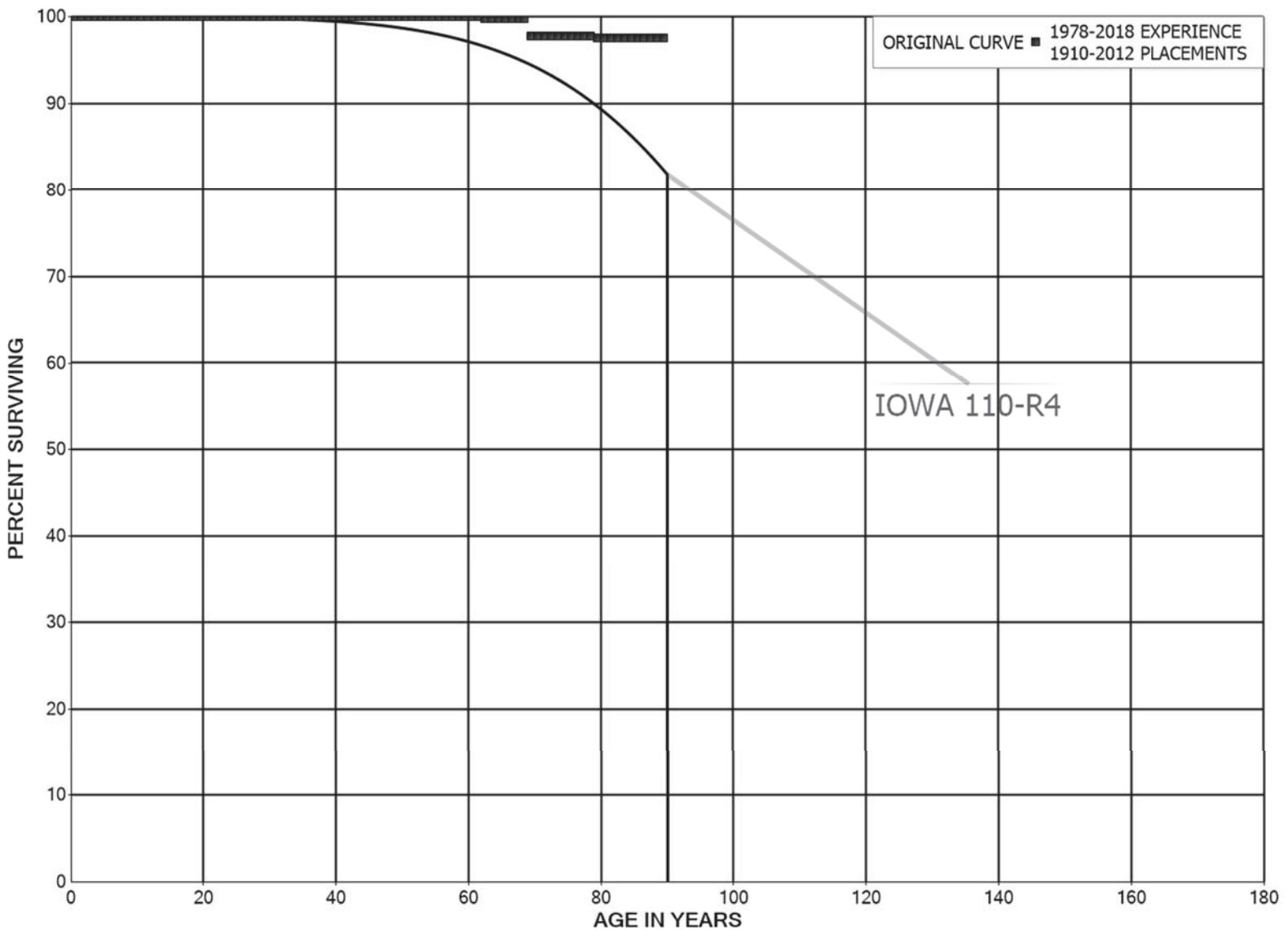
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1951-2018

EXPERIENCE BAND 1978-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,921,810	2,114	0.0011	0.9989	14.60
40.5	1,434,736	1,989	0.0014	0.9986	14.59
41.5	1,015,120	232	0.0002	0.9998	14.57
42.5	984,906	5,204	0.0053	0.9947	14.56
43.5					14.49

DUKE ENERGY CAROLINAS
ACCOUNT 330 RIGHTS OF WAY
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 330 RIGHTS OF WAY

ORIGINAL LIFE TABLE

PLACEMENT BAND 1910-2012			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	841,697		0.0000	1.0000	100.00
0.5	841,697		0.0000	1.0000	100.00
1.5	841,697		0.0000	1.0000	100.00
2.5	846,256		0.0000	1.0000	100.00
3.5	850,337		0.0000	1.0000	100.00
4.5	1,112,481		0.0000	1.0000	100.00
5.5	1,116,652		0.0000	1.0000	100.00
6.5	12,846,325		0.0000	1.0000	100.00
7.5	13,215,366		0.0000	1.0000	100.00
8.5	13,212,510		0.0000	1.0000	100.00
9.5	13,236,414		0.0000	1.0000	100.00
10.5	13,236,414		0.0000	1.0000	100.00
11.5	13,236,414		0.0000	1.0000	100.00
12.5	13,236,414		0.0000	1.0000	100.00
13.5	20,137,454		0.0000	1.0000	100.00
14.5	20,574,927		0.0000	1.0000	100.00
15.5	20,137,454		0.0000	1.0000	100.00
16.5	20,137,454		0.0000	1.0000	100.00
17.5	20,137,454		0.0000	1.0000	100.00
18.5	20,173,630		0.0000	1.0000	100.00
19.5	20,173,630		0.0000	1.0000	100.00
20.5	20,169,275		0.0000	1.0000	100.00
21.5	20,169,413		0.0000	1.0000	100.00
22.5	20,169,413		0.0000	1.0000	100.00
23.5	20,169,413		0.0000	1.0000	100.00
24.5	20,169,413		0.0000	1.0000	100.00
25.5	20,169,787		0.0000	1.0000	100.00
26.5	20,169,787	253	0.0000	1.0000	100.00
27.5	19,445,842		0.0000	1.0000	100.00
28.5	19,434,670		0.0000	1.0000	100.00
29.5	19,434,652		0.0000	1.0000	100.00
30.5	19,434,652		0.0000	1.0000	100.00
31.5	19,360,606	8,273	0.0004	0.9996	100.00
32.5	19,362,868		0.0000	1.0000	99.96
33.5	19,362,868		0.0000	1.0000	99.96
34.5	19,362,868		0.0000	1.0000	99.96
35.5	19,362,868		0.0000	1.0000	99.96
36.5	19,361,261		0.0000	1.0000	99.96
37.5	19,361,261		0.0000	1.0000	99.96
38.5	19,361,261		0.0000	1.0000	99.96

DUKE ENERGY CAROLINAS

ACCOUNT 330 RIGHTS OF WAY

ORIGINAL LIFE TABLE, CONT.

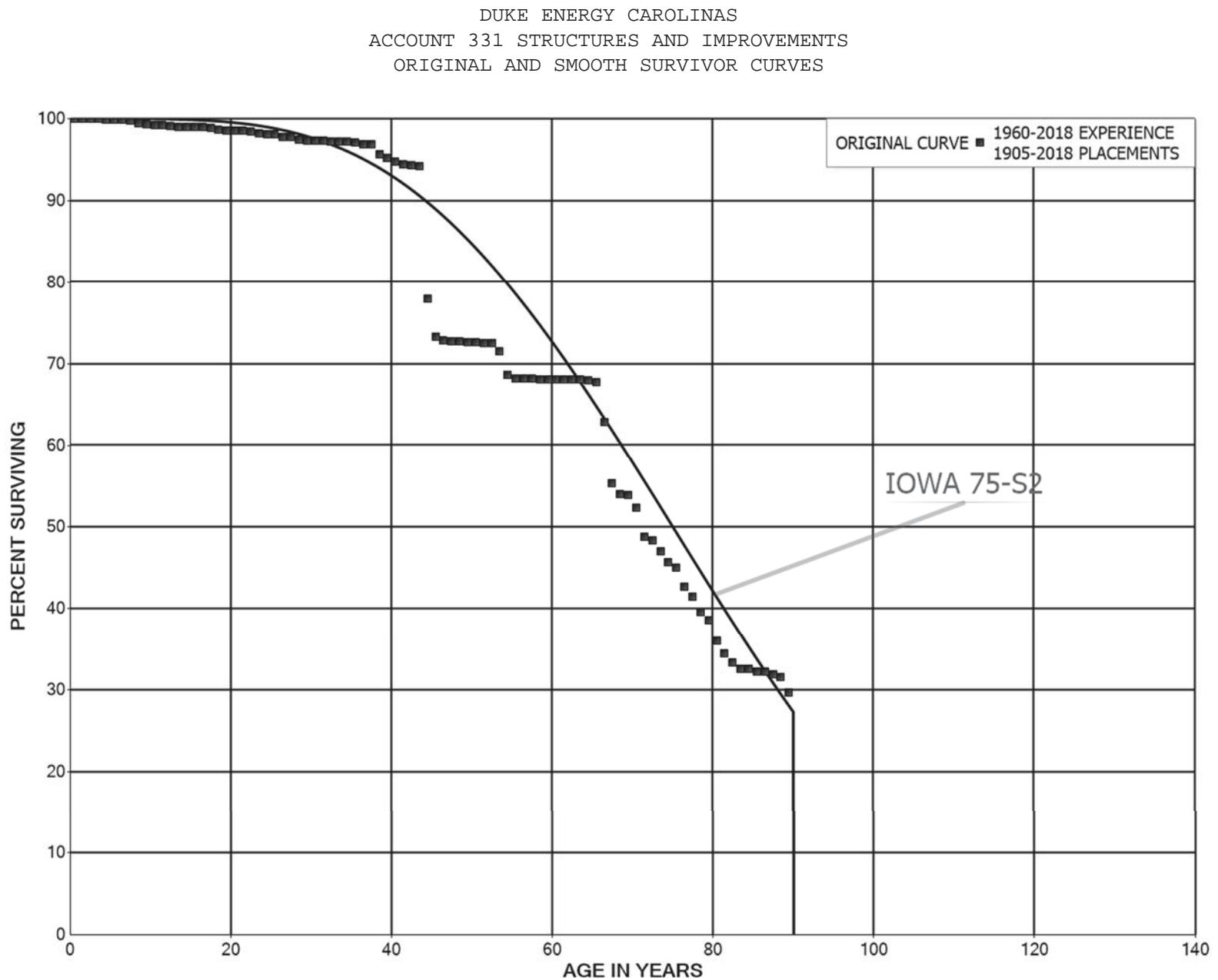
PLACEMENT BAND 1910-2012			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	19,326,737		0.0000	1.0000	99.96
40.5	19,326,737		0.0000	1.0000	99.96
41.5	19,322,656		0.0000	1.0000	99.96
42.5	19,322,656		0.0000	1.0000	99.96
43.5	19,318,485		0.0000	1.0000	99.96
44.5	19,282,309		0.0000	1.0000	99.96
45.5	18,957,451		0.0000	1.0000	99.96
46.5	18,957,451		0.0000	1.0000	99.96
47.5	6,890,457		0.0000	1.0000	99.96
48.5	6,890,457		0.0000	1.0000	99.96
49.5	7,595,090		0.0000	1.0000	99.96
50.5	7,908,489		0.0000	1.0000	99.96
51.5	7,908,931		0.0000	1.0000	99.96
52.5	9,309,419		0.0000	1.0000	99.96
53.5	9,310,239		0.0000	1.0000	99.96
54.5	2,749,875		0.0000	1.0000	99.96
55.5	2,751,004		0.0000	1.0000	99.96
56.5	2,761,825		0.0000	1.0000	99.96
57.5	2,762,226	25	0.0000	1.0000	99.96
58.5	3,344,146		0.0000	1.0000	99.96
59.5	3,344,902		0.0000	1.0000	99.96
60.5	3,350,789		0.0000	1.0000	99.96
61.5	3,386,885	8,818	0.0026	0.9974	99.96
62.5	3,391,301		0.0000	1.0000	99.69
63.5	3,392,373		0.0000	1.0000	99.69
64.5	3,392,119		0.0000	1.0000	99.69
65.5	3,390,195		0.0000	1.0000	99.69
66.5	3,390,787		0.0000	1.0000	99.69
67.5	3,451,572		0.0000	1.0000	99.69
68.5	3,503,640	67,995	0.0194	0.9806	99.69
69.5	3,430,494	442	0.0001	0.9999	97.76
70.5	3,429,752		0.0000	1.0000	97.75
71.5	3,428,987		0.0000	1.0000	97.75
72.5	3,427,915		0.0000	1.0000	97.75
73.5	3,427,376		0.0000	1.0000	97.75
74.5	3,418,479		0.0000	1.0000	97.75
75.5	3,430,212		0.0000	1.0000	97.75
76.5	3,369,427		0.0000	1.0000	97.75
77.5	3,315,740		0.0000	1.0000	97.75
78.5	3,332,408	6,613	0.0020	0.9980	97.75

DUKE ENERGY CAROLINAS

ACCOUNT 330 RIGHTS OF WAY

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1910-2012			EXPERIENCE BAND 1978-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	3,325,795		0.0000	1.0000	97.55
80.5	3,326,507		0.0000	1.0000	97.55
81.5	3,326,507		0.0000	1.0000	97.55
82.5	3,327,593		0.0000	1.0000	97.55
83.5	3,327,593		0.0000	1.0000	97.55
84.5	3,277,166		0.0000	1.0000	97.55
85.5	3,277,166		0.0000	1.0000	97.55
86.5	3,277,166		0.0000	1.0000	97.55
87.5	3,277,166		0.0000	1.0000	97.55
88.5	3,277,166		0.0000	1.0000	97.55
89.5	3,276,454		0.0000	1.0000	97.55
90.5	2,580,664		0.0000	1.0000	97.55
91.5	2,335,260		0.0000	1.0000	97.55
92.5	2,335,260		0.0000	1.0000	97.55
93.5	982,391		0.0000	1.0000	97.55
94.5	982,391		0.0000	1.0000	97.55
95.5	662,833		0.0000	1.0000	97.55
96.5	662,833		0.0000	1.0000	97.55
97.5	662,833		0.0000	1.0000	97.55
98.5	662,833		0.0000	1.0000	97.55
99.5	65,017		0.0000	1.0000	97.55
100.5	65,017		0.0000	1.0000	97.55
101.5	58,904		0.0000	1.0000	97.55
102.5	23,108		0.0000	1.0000	97.55
103.5	15,682		0.0000	1.0000	97.55
104.5	15,682		0.0000	1.0000	97.55
105.5	15,682		0.0000	1.0000	97.55
106.5	15,682		0.0000	1.0000	97.55
107.5	15,682		0.0000	1.0000	97.55
108.5					97.55



DUKE ENERGY CAROLINAS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	478,703,789	3,650	0.0000	1.0000	100.00
0.5	471,031,949	137,937	0.0003	0.9997	100.00
1.5	458,369,521	80,207	0.0002	0.9998	99.97
2.5	450,644,022	65,061	0.0001	0.9999	99.95
3.5	422,454,831	261,815	0.0006	0.9994	99.94
4.5	383,718,456	298,729	0.0008	0.9992	99.88
5.5	378,940,325	0	0.0000	1.0000	99.80
6.5	373,227,533	151,586	0.0004	0.9996	99.80
7.5	310,279,732	1,245,955	0.0040	0.9960	99.76
8.5	307,596,515	235,630	0.0008	0.9992	99.36
9.5	305,376,851	434,105	0.0014	0.9986	99.28
10.5	303,233,766	33,161	0.0001	0.9999	99.14
11.5	302,384,632	166,298	0.0005	0.9995	99.13
12.5	300,283,014	221,169	0.0007	0.9993	99.07
13.5	299,140,448	157,790	0.0005	0.9995	99.00
14.5	297,762,795	114,377	0.0004	0.9996	98.95
15.5	296,605,999	48,951	0.0002	0.9998	98.91
16.5	294,512,855	298,804	0.0010	0.9990	98.90
17.5	293,377,047	370,543	0.0013	0.9987	98.79
18.5	288,073,367	490,347	0.0017	0.9983	98.67
19.5	281,007,235	49,968	0.0002	0.9998	98.50
20.5	278,701,043	74,701	0.0003	0.9997	98.48
21.5	273,391,521	149,865	0.0005	0.9995	98.46
22.5	269,321,037	684,250	0.0025	0.9975	98.40
23.5	265,987,653	180,431	0.0007	0.9993	98.15
24.5	263,403,021	24,650	0.0001	0.9999	98.09
25.5	262,734,402	897,988	0.0034	0.9966	98.08
26.5	257,401,494	118,221	0.0005	0.9995	97.74
27.5	36,519,051	127,826	0.0035	0.9965	97.70
28.5	36,142,959	19,307	0.0005	0.9995	97.36
29.5	36,092,057	16,025	0.0004	0.9996	97.30
30.5	35,917,034	6,775	0.0002	0.9998	97.26
31.5	35,972,491	8,205	0.0002	0.9998	97.24
32.5	35,860,715	2,485	0.0001	0.9999	97.22
33.5	35,635,924	11	0.0000	1.0000	97.21
34.5	33,069,973	55,318	0.0017	0.9983	97.21
35.5	32,992,593	67,056	0.0020	0.9980	97.05
36.5	33,334,832	0	0.0000	1.0000	96.85
37.5	33,252,233	440,377	0.0132	0.9868	96.85
38.5	32,574,298	149,224	0.0046	0.9954	95.57

DUKE ENERGY CAROLINAS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	32,519,537	141,790	0.0044	0.9956	95.13
40.5	32,884,015	95,413	0.0029	0.9971	94.72
41.5	32,740,191	64,737	0.0020	0.9980	94.44
42.5	32,634,200	31,266	0.0010	0.9990	94.26
43.5	31,799,265	5,485,367	0.1725	0.8275	94.17
44.5	26,372,555	1,551,662	0.0588	0.9412	77.92
45.5	13,028,742	96,870	0.0074	0.9926	73.34
46.5	12,927,666	3,627	0.0003	0.9997	72.79
47.5	12,165,349	14,009	0.0012	0.9988	72.77
48.5	12,144,375	8,188	0.0007	0.9993	72.69
49.5	12,231,007	5,363	0.0004	0.9996	72.64
50.5	12,496,389	14,075	0.0011	0.9989	72.61
51.5	12,558,078	4,781	0.0004	0.9996	72.53
52.5	12,791,653	172,080	0.0135	0.9865	72.50
53.5	12,616,524	511,012	0.0405	0.9595	71.52
54.5	12,378,397	82,234	0.0066	0.9934	68.63
55.5	5,636,275	1,917	0.0003	0.9997	68.17
56.5	5,633,135	2	0.0000	1.0000	68.15
57.5	5,631,608	2,800	0.0005	0.9995	68.15
58.5	5,628,808	1,440	0.0003	0.9997	68.11
59.5	5,627,368	2,339	0.0004	0.9996	68.10
60.5	5,624,316	1,547	0.0003	0.9997	68.07
61.5	5,621,846	363	0.0001	0.9999	68.05
62.5	5,618,132	2	0.0000	1.0000	68.04
63.5	5,497,835	6,235	0.0011	0.9989	68.04
64.5	5,417,377	17,277	0.0032	0.9968	67.97
65.5	5,398,564	391,379	0.0725	0.9275	67.75
66.5	4,939,660	592,309	0.1199	0.8801	62.84
67.5	4,270,847	102,640	0.0240	0.9760	55.30
68.5	4,166,241	12,002	0.0029	0.9971	53.97
69.5	4,143,781	116,082	0.0280	0.9720	53.82
70.5	4,027,553	272,441	0.0676	0.9324	52.31
71.5	3,743,611	34,233	0.0091	0.9909	48.77
72.5	3,709,378	109,293	0.0295	0.9705	48.33
73.5	3,593,073	101,340	0.0282	0.9718	46.90
74.5	3,489,710	46,796	0.0134	0.9866	45.58
75.5	3,435,366	183,153	0.0533	0.9467	44.97
76.5	2,884,584	82,314	0.0285	0.9715	42.57
77.5	2,249,944	99,597	0.0443	0.9557	41.36
78.5	2,150,347	57,555	0.0268	0.9732	39.53

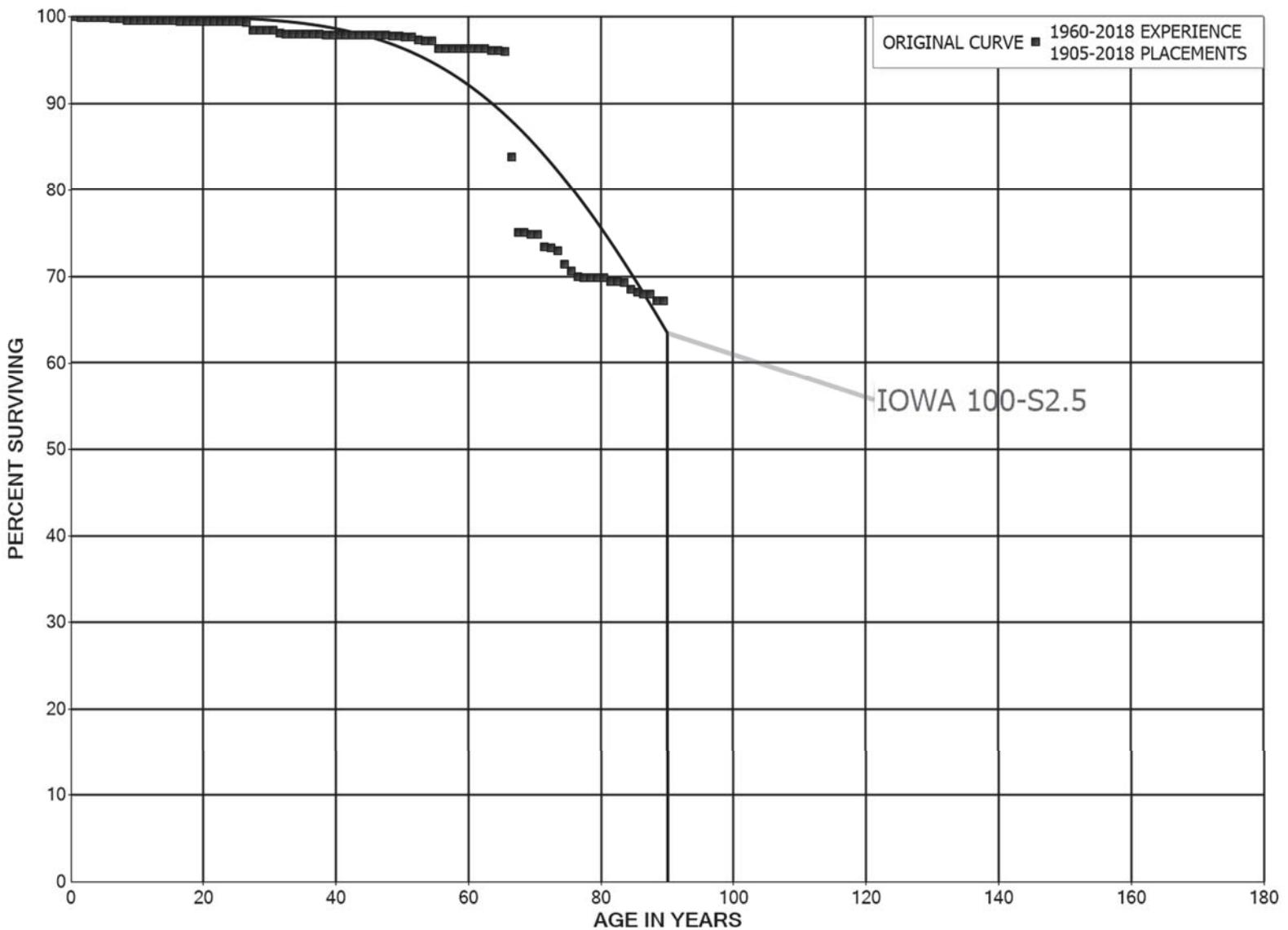
DUKE ENERGY CAROLINAS

ACCOUNT 331 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,092,764	135,289	0.0646	0.9354	38.47
80.5	1,957,475	89,221	0.0456	0.9544	35.98
81.5	1,868,254	60,047	0.0321	0.9679	34.34
82.5	1,808,207	39,705	0.0220	0.9780	33.24
83.5	1,768,502	143	0.0001	0.9999	32.51
84.5	1,768,359	18,595	0.0105	0.9895	32.51
85.5	1,749,764	1,093	0.0006	0.9994	32.16
86.5	1,748,671	17,841	0.0102	0.9898	32.14
87.5	1,730,830	17,541	0.0101	0.9899	31.82
88.5	1,713,289	103,743	0.0606	0.9394	31.49
89.5	1,570,317	45,152	0.0288	0.9712	29.59
90.5	1,525,164	273,369	0.1792	0.8208	28.74
91.5	1,171,703	148,306	0.1266	0.8734	23.58
92.5	1,023,397	17,981	0.0176	0.9824	20.60
93.5	908,752	3,861	0.0042	0.9958	20.24
94.5	895,825	927	0.0010	0.9990	20.15
95.5	835,841	7,779	0.0093	0.9907	20.13
96.5	828,062	113,147	0.1366	0.8634	19.94
97.5	714,915	10,819	0.0151	0.9849	17.22
98.5	677,220	148	0.0002	0.9998	16.96
99.5	564,323		0.0000	1.0000	16.95
100.5	564,323	2,382	0.0042	0.9958	16.95
101.5	561,941		0.0000	1.0000	16.88
102.5	561,941		0.0000	1.0000	16.88
103.5	561,941	39,020	0.0694	0.9306	16.88
104.5	522,921		0.0000	1.0000	15.71
105.5	522,921	211	0.0004	0.9996	15.71
106.5	522,710	10,729	0.0205	0.9795	15.70
107.5	511,981	3,560	0.0070	0.9930	15.38
108.5	508,420		0.0000	1.0000	15.27
109.5	259,679	2,230	0.0086	0.9914	15.27
110.5	194,863		0.0000	1.0000	15.14
111.5					15.14

DUKE ENERGY CAROLINAS
ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	728,937,643		0.0000	1.0000	100.00
0.5	708,993,381	1,388,853	0.0020	0.9980	100.00
1.5	690,132,008	2	0.0000	1.0000	99.80
2.5	735,169,320	10	0.0000	1.0000	99.80
3.5	752,318,854	0	0.0000	1.0000	99.80
4.5	761,671,214	141,597	0.0002	0.9998	99.80
5.5	761,411,143	430,868	0.0006	0.9994	99.79
6.5	758,470,864	282,060	0.0004	0.9996	99.73
7.5	744,898,715	1,317,332	0.0018	0.9982	99.69
8.5	743,596,114	19,286	0.0000	1.0000	99.52
9.5	686,018,764	89,958	0.0001	0.9999	99.51
10.5	656,677,050	172,800	0.0003	0.9997	99.50
11.5	650,212,319	27,687	0.0000	1.0000	99.47
12.5	646,005,576		0.0000	1.0000	99.47
13.5	633,542,287	2,771	0.0000	1.0000	99.47
14.5	614,331,193	53,591	0.0001	0.9999	99.47
15.5	613,684,748	118,223	0.0002	0.9998	99.46
16.5	602,162,928	260,224	0.0004	0.9996	99.44
17.5	610,933,165	40,484	0.0001	0.9999	99.40
18.5	611,117,677	177,684	0.0003	0.9997	99.39
19.5	592,842,593	1	0.0000	1.0000	99.36
20.5	588,803,861		0.0000	1.0000	99.36
21.5	586,958,346	8,255	0.0000	1.0000	99.36
22.5	586,252,048	2,290	0.0000	1.0000	99.36
23.5	583,127,715	16,197	0.0000	1.0000	99.36
24.5	583,157,747	98,235	0.0002	0.9998	99.36
25.5	582,814,023	273,765	0.0005	0.9995	99.34
26.5	577,152,052	5,087,608	0.0088	0.9912	99.29
27.5	126,934,912	46	0.0000	1.0000	98.42
28.5	125,088,064		0.0000	1.0000	98.42
29.5	124,530,338	64,317	0.0005	0.9995	98.42
30.5	123,461,774	396,929	0.0032	0.9968	98.37
31.5	122,810,253	82,067	0.0007	0.9993	98.05
32.5	123,632,630	70,115	0.0006	0.9994	97.99
33.5	122,067,013		0.0000	1.0000	97.93
34.5	127,103,876	39,286	0.0003	0.9997	97.93
35.5	127,058,072		0.0000	1.0000	97.90
36.5	130,765,981	8,617	0.0001	0.9999	97.90
37.5	130,536,051	78,189	0.0006	0.9994	97.89
38.5	130,425,961	180	0.0000	1.0000	97.84

DUKE ENERGY CAROLINAS

ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	131,079,446		0.0000	1.0000	97.84
40.5	137,671,100		0.0000	1.0000	97.84
41.5	137,664,168		0.0000	1.0000	97.84
42.5	137,984,814		0.0000	1.0000	97.84
43.5	137,886,741		0.0000	1.0000	97.84
44.5	139,005,113		0.0000	1.0000	97.84
45.5	90,342,270		0.0000	1.0000	97.84
46.5	90,336,468		0.0000	1.0000	97.84
47.5	73,575,395	98,121	0.0013	0.9987	97.84
48.5	73,475,911		0.0000	1.0000	97.71
49.5	74,489,637	99,925	0.0013	0.9987	97.71
50.5	75,106,824		0.0000	1.0000	97.57
51.5	75,847,650	204,870	0.0027	0.9973	97.57
52.5	76,495,868	133,361	0.0017	0.9983	97.31
53.5	76,358,777	3,421	0.0000	1.0000	97.14
54.5	76,390,780	645,614	0.0085	0.9915	97.14
55.5	60,019,671	1,913	0.0000	1.0000	96.32
56.5	60,017,546		0.0000	1.0000	96.31
57.5	60,013,153		0.0000	1.0000	96.31
58.5	60,013,153		0.0000	1.0000	96.31
59.5	59,969,265		0.0000	1.0000	96.31
60.5	59,961,604		0.0000	1.0000	96.31
61.5	59,961,285	13	0.0000	1.0000	96.31
62.5	59,957,068	123,730	0.0021	0.9979	96.31
63.5	56,183,703	54,925	0.0010	0.9990	96.11
64.5	54,244,638	14,308	0.0003	0.9997	96.02
65.5	54,228,969	6,869,774	0.1267	0.8733	95.99
66.5	46,287,030	4,823,290	0.1042	0.8958	83.83
67.5	41,174,453	29,554	0.0007	0.9993	75.10
68.5	40,793,612	91,276	0.0022	0.9978	75.04
69.5	39,537,825	21,053	0.0005	0.9995	74.88
70.5	39,515,185	741,137	0.0188	0.9812	74.84
71.5	38,759,789	81,488	0.0021	0.9979	73.43
72.5	38,678,300	187,484	0.0048	0.9952	73.28
73.5	38,490,817	827,996	0.0215	0.9785	72.92
74.5	37,629,149	386,960	0.0103	0.9897	71.35
75.5	37,226,323	334,620	0.0090	0.9910	70.62
76.5	29,524,441	56,629	0.0019	0.9981	69.99
77.5	24,639,004	18,710	0.0008	0.9992	69.85
78.5	24,620,294		0.0000	1.0000	69.80

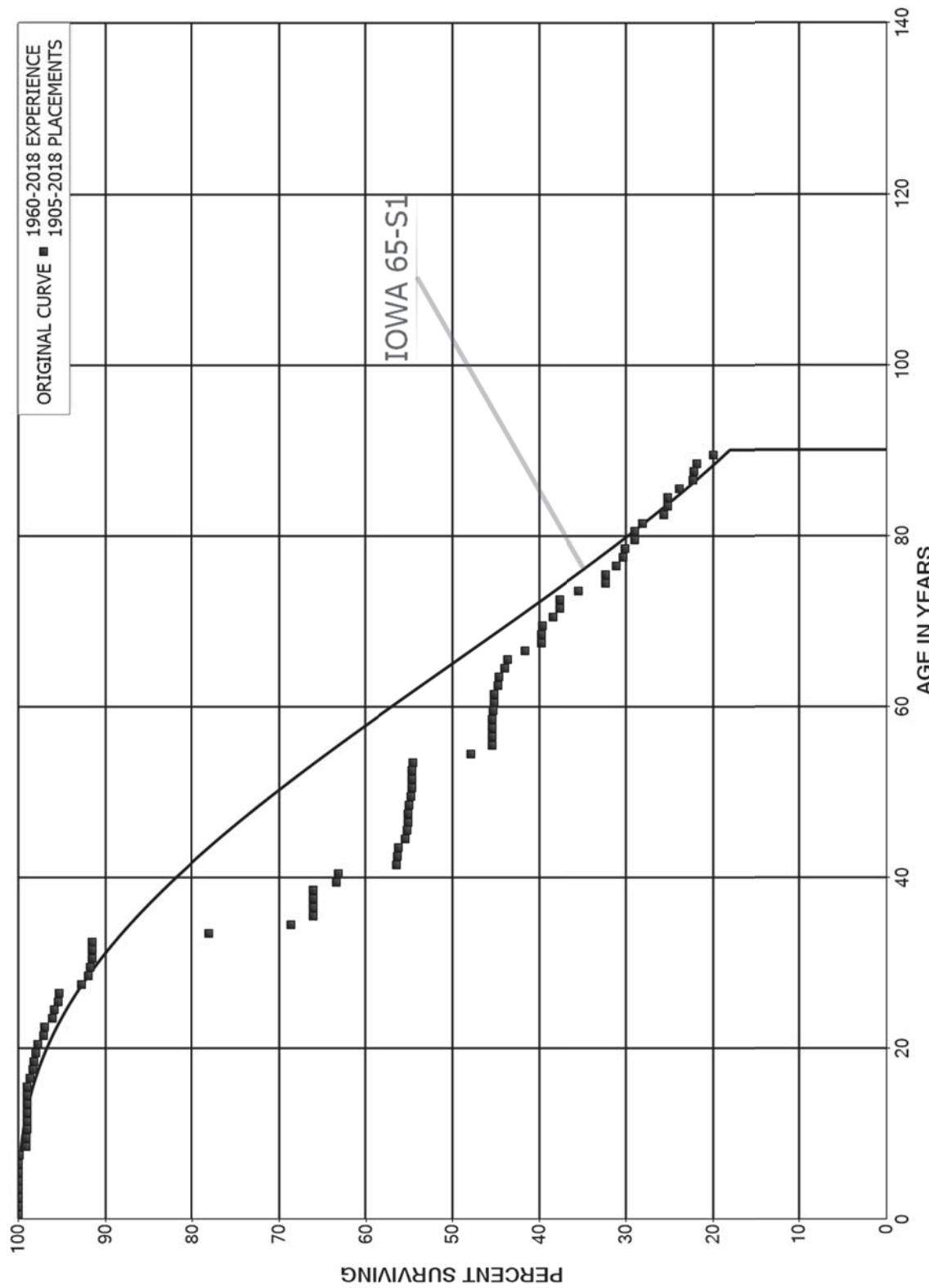
DUKE ENERGY CAROLINAS

ACCOUNT 332 RESERVOIRS, DAMS AND WATERWAYS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	24,620,294		0.0000	1.0000	69.80
80.5	24,519,136	135,907	0.0055	0.9945	69.80
81.5	24,383,229	4,868	0.0002	0.9998	69.41
82.5	24,378,361	25,528	0.0010	0.9990	69.40
83.5	24,278,178	289,488	0.0119	0.9881	69.33
84.5	23,988,690	131,434	0.0055	0.9945	68.50
85.5	23,762,155	60,689	0.0026	0.9974	68.12
86.5	23,701,465	1,435	0.0001	0.9999	67.95
87.5	23,700,031	250,004	0.0105	0.9895	67.95
88.5	23,448,259	7,233	0.0003	0.9997	67.23
89.5	23,396,235	250,255	0.0107	0.9893	67.21
90.5	21,403,504	62,282	0.0029	0.9971	66.49
91.5	20,066,469	23,868	0.0012	0.9988	66.30
92.5	18,765,601		0.0000	1.0000	66.22
93.5	14,582,091		0.0000	1.0000	66.22
94.5	14,483,754		0.0000	1.0000	66.22
95.5	11,417,904		0.0000	1.0000	66.22
96.5	11,417,904		0.0000	1.0000	66.22
97.5	11,417,904		0.0000	1.0000	66.22
98.5	11,417,904	5,857	0.0005	0.9995	66.22
99.5	4,958,096		0.0000	1.0000	66.18
100.5	4,958,096	2,062	0.0004	0.9996	66.18
101.5	4,650,400		0.0000	1.0000	66.16
102.5	4,188,306		0.0000	1.0000	66.16
103.5	3,091,171		0.0000	1.0000	66.16
104.5	3,091,171		0.0000	1.0000	66.16
105.5	3,091,171		0.0000	1.0000	66.16
106.5	3,091,171	7,878	0.0025	0.9975	66.16
107.5	3,083,293		0.0000	1.0000	65.99
108.5	2,101,941	2,842	0.0014	0.9986	65.99
109.5	1,414,013	4,357	0.0031	0.9969	65.90
110.5	853,426		0.0000	1.0000	65.69
111.5					65.69

DUKE ENERGY CAROLINAS
ACCOUNT 333 WATER WHEELS, TURBINES AND GENERATORS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 333 WATER WHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	730,178,741		0.0000	1.0000	100.00
0.5	712,649,719	3,117	0.0000	1.0000	100.00
1.5	681,700,812	57,151	0.0001	0.9999	100.00
2.5	614,777,720	84,559	0.0001	0.9999	99.99
3.5	607,601,004	296,523	0.0005	0.9995	99.98
4.5	582,579,241	29,540	0.0001	0.9999	99.93
5.5	557,002,440	110,614	0.0002	0.9998	99.92
6.5	554,381,909	268,305	0.0005	0.9995	99.90
7.5	513,479,831	4,079,443	0.0079	0.9921	99.86
8.5	508,284,329	68,359	0.0001	0.9999	99.06
9.5	508,050,551	199,806	0.0004	0.9996	99.05
10.5	507,229,271	53,815	0.0001	0.9999	99.01
11.5	479,860,083	41,147	0.0001	0.9999	99.00
12.5	472,344,477	5,285	0.0000	1.0000	98.99
13.5	449,568,247	429,620	0.0010	0.9990	98.99
14.5	428,408,736		0.0000	1.0000	98.90
15.5	421,821,217	1,360,688	0.0032	0.9968	98.90
16.5	413,236,079	999,856	0.0024	0.9976	98.58
17.5	395,375,947	488,878	0.0012	0.9988	98.34
18.5	376,637,226	989,347	0.0026	0.9974	98.22
19.5	359,555,403	768,689	0.0021	0.9979	97.96
20.5	353,421,009	2,306,217	0.0065	0.9935	97.75
21.5	324,752,703	401,497	0.0012	0.9988	97.11
22.5	311,764,512	2,811,310	0.0090	0.9910	96.99
23.5	299,081,993	1,027,445	0.0034	0.9966	96.12
24.5	293,350,275	1,208,459	0.0041	0.9959	95.79
25.5	279,514,062	401,860	0.0014	0.9986	95.39
26.5	276,744,995	7,239,704	0.0262	0.9738	95.25
27.5	49,288,319	458,381	0.0093	0.9907	92.76
28.5	48,637,109	64,370	0.0013	0.9987	91.90
29.5	48,573,856	133,638	0.0028	0.9972	91.78
30.5	48,404,248		0.0000	1.0000	91.53
31.5	48,646,550	32,009	0.0007	0.9993	91.53
32.5	49,278,035	7,207,236	0.1463	0.8537	91.47
33.5	42,054,215	5,128,440	0.1219	0.8781	78.09
34.5	38,333,287	1,389,579	0.0362	0.9638	68.57
35.5	36,984,136		0.0000	1.0000	66.08
36.5	38,067,611		0.0000	1.0000	66.08
37.5	38,067,611	5,071	0.0001	0.9999	66.08
38.5	38,062,261	1,561,876	0.0410	0.9590	66.07

DUKE ENERGY CAROLINAS

ACCOUNT 333 WATER WHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	36,690,954	77,003	0.0021	0.9979	63.36
40.5	37,748,169	4,086,785	0.1083	0.8917	63.23
41.5	33,506,497	54,896	0.0016	0.9984	56.38
42.5	33,291,019	97,546	0.0029	0.9971	56.29
43.5	30,856,515	396,902	0.0129	0.9871	56.12
44.5	30,690,006	104,696	0.0034	0.9966	55.40
45.5	22,005,601	63,669	0.0029	0.9971	55.21
46.5	21,941,932	8,102	0.0004	0.9996	55.05
47.5	21,553,600	38,867	0.0018	0.9982	55.03
48.5	21,512,157	82,013	0.0038	0.9962	54.93
49.5	21,792,154	26,396	0.0012	0.9988	54.72
50.5	22,723,671		0.0000	1.0000	54.66
51.5	22,897,279	1,065	0.0000	1.0000	54.66
52.5	23,324,691	81,300	0.0035	0.9965	54.66
53.5	23,242,134	2,809,899	0.1209	0.8791	54.47
54.5	20,548,630	1,071,289	0.0521	0.9479	47.88
55.5	10,600,124		0.0000	1.0000	45.38
56.5	10,600,124	2,197	0.0002	0.9998	45.38
57.5	10,597,927	6,600	0.0006	0.9994	45.37
58.5	10,590,947	2,008	0.0002	0.9998	45.35
59.5	10,581,651	38,609	0.0036	0.9964	45.34
60.5	10,541,642	16	0.0000	1.0000	45.17
61.5	10,541,222	116,351	0.0110	0.9890	45.17
62.5	10,421,526	5,579	0.0005	0.9995	44.67
63.5	10,129,383	156,286	0.0154	0.9846	44.65
64.5	9,858,460	81,508	0.0083	0.9917	43.96
65.5	9,742,018	440,423	0.0452	0.9548	43.60
66.5	9,195,700	408,136	0.0444	0.9556	41.63
67.5	8,658,008	8,617	0.0010	0.9990	39.78
68.5	8,648,890	37,964	0.0044	0.9956	39.74
69.5	8,575,575	250,772	0.0292	0.9708	39.57
70.5	8,324,803	172,798	0.0208	0.9792	38.41
71.5	8,151,675	4,867	0.0006	0.9994	37.61
72.5	8,146,497	471,902	0.0579	0.9421	37.59
73.5	7,674,596	678,688	0.0884	0.9116	35.41
74.5	6,995,722	5,625	0.0008	0.9992	32.28
75.5	6,927,678	253,088	0.0365	0.9635	32.25
76.5	6,221,716	164,678	0.0265	0.9735	31.08
77.5	5,667,491	41,417	0.0073	0.9927	30.25
78.5	5,626,074	199,279	0.0354	0.9646	30.03

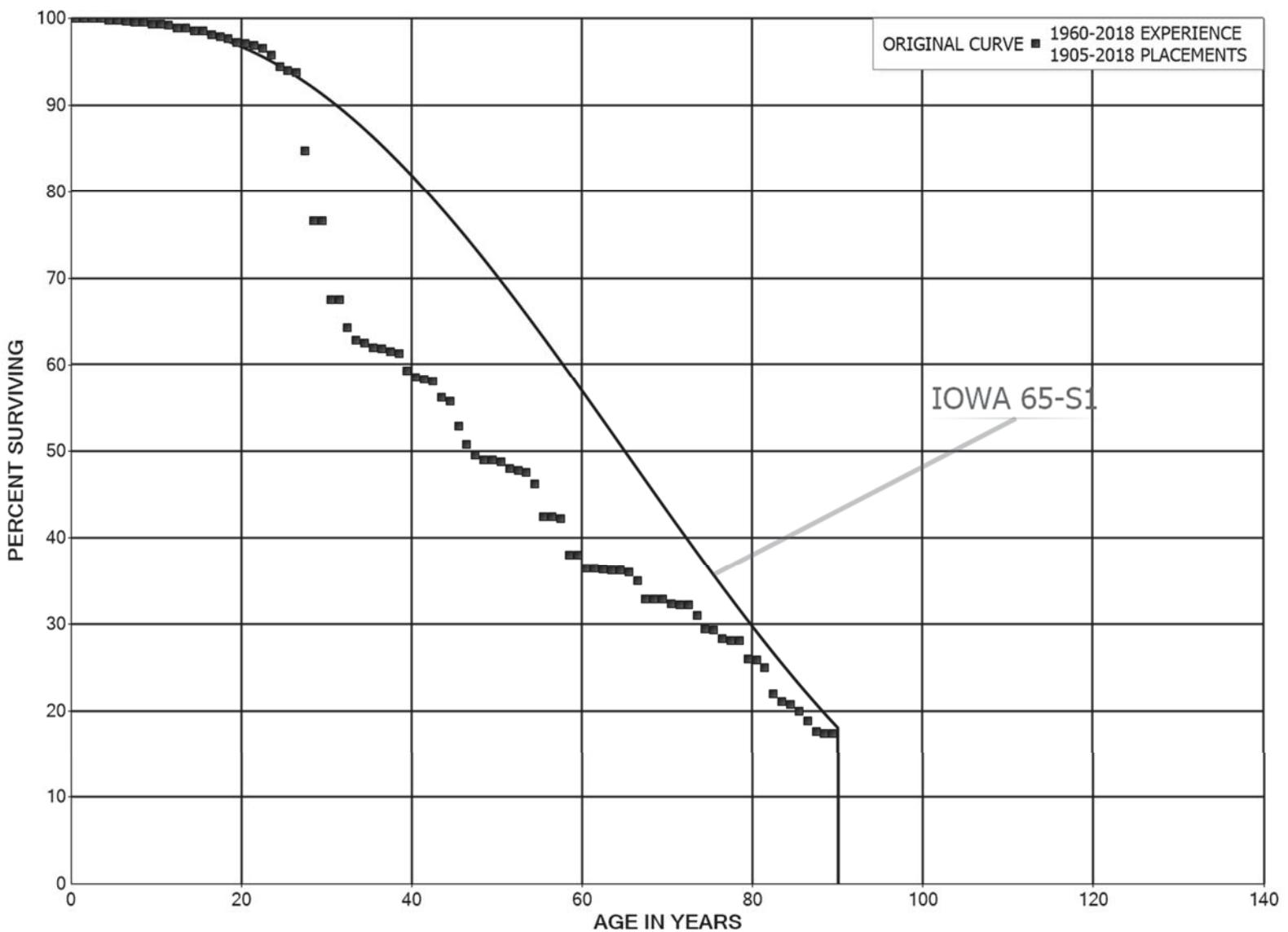
DUKE ENERGY CAROLINAS

ACCOUNT 333 WATER WHEELS, TURBINES AND GENERATORS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	5,426,795	1,305	0.0002	0.9998	28.97
80.5	5,425,490	172,125	0.0317	0.9683	28.96
81.5	5,253,365	450,121	0.0857	0.9143	28.04
82.5	4,803,245	87,705	0.0183	0.9817	25.64
83.5	4,715,539		0.0000	1.0000	25.17
84.5	4,715,539	254,839	0.0540	0.9460	25.17
85.5	4,460,700	281,920	0.0632	0.9368	23.81
86.5	4,178,780	27,940	0.0067	0.9933	22.31
87.5	4,150,840	67,821	0.0163	0.9837	22.16
88.5	4,083,019	334,481	0.0819	0.9181	21.79
89.5	3,740,176	46,357	0.0124	0.9876	20.01
90.5	3,693,819	117,604	0.0318	0.9682	19.76
91.5	3,243,160	180,146	0.0555	0.9445	19.13
92.5	3,063,014	380	0.0001	0.9999	18.07
93.5	2,740,300		0.0000	1.0000	18.07
94.5	2,740,300		0.0000	1.0000	18.07
95.5	2,300,644	9,943	0.0043	0.9957	18.07
96.5	2,290,701	244,988	0.1069	0.8931	17.99
97.5	2,045,713	20,443	0.0100	0.9900	16.07
98.5	1,856,974		0.0000	1.0000	15.90
99.5	1,491,169	24,545	0.0165	0.9835	15.90
100.5	1,466,624	4,307	0.0029	0.9971	15.64
101.5	1,462,317	5,671	0.0039	0.9961	15.60
102.5	1,445,794		0.0000	1.0000	15.54
103.5	1,368,052		0.0000	1.0000	15.54
104.5	1,368,052		0.0000	1.0000	15.54
105.5	1,368,052		0.0000	1.0000	15.54
106.5	1,368,052		0.0000	1.0000	15.54
107.5	1,368,052		0.0000	1.0000	15.54
108.5	1,248,571		0.0000	1.0000	15.54
109.5	323,601	128	0.0004	0.9996	15.54
110.5	323,473		0.0000	1.0000	15.53
111.5					15.53

DUKE ENERGY CAROLINAS
ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	157,219,218		0.0000	1.0000	100.00
0.5	151,337,037	7,508	0.0000	1.0000	100.00
1.5	147,189,057	5,548	0.0000	1.0000	100.00
2.5	142,041,759		0.0000	1.0000	99.99
3.5	140,175,610	352,954	0.0025	0.9975	99.99
4.5	143,774,066	76,985	0.0005	0.9995	99.74
5.5	143,274,916	87,941	0.0006	0.9994	99.69
6.5	141,636,255	106,663	0.0008	0.9992	99.62
7.5	133,111,414	10,986	0.0001	0.9999	99.55
8.5	132,713,193	378,950	0.0029	0.9971	99.54
9.5	132,076,788	15,344	0.0001	0.9999	99.26
10.5	131,833,036	89,083	0.0007	0.9993	99.25
11.5	130,864,947	387,892	0.0030	0.9970	99.18
12.5	129,770,119	26,566	0.0002	0.9998	98.88
13.5	128,627,643	461,620	0.0036	0.9964	98.86
14.5	127,476,449	75,677	0.0006	0.9994	98.51
15.5	125,797,400	502,041	0.0040	0.9960	98.45
16.5	112,728,691	203,215	0.0018	0.9982	98.06
17.5	109,968,960	306,922	0.0028	0.9972	97.88
18.5	97,296,133	396,373	0.0041	0.9959	97.61
19.5	90,607,965	160,224	0.0018	0.9982	97.21
20.5	89,576,376	172,668	0.0019	0.9981	97.04
21.5	82,430,637	299,892	0.0036	0.9964	96.85
22.5	77,237,454	644,454	0.0083	0.9917	96.50
23.5	72,777,397	953,488	0.0131	0.9869	95.69
24.5	71,583,700	412,205	0.0058	0.9942	94.44
25.5	69,268,864	136,012	0.0020	0.9980	93.90
26.5	67,798,878	6,490,782	0.0957	0.9043	93.71
27.5	14,198,915	1,352,874	0.0953	0.9047	84.74
28.5	12,710,044	14,011	0.0011	0.9989	76.67
29.5	12,386,324	1,475,278	0.1191	0.8809	76.58
30.5	10,490,920	247	0.0000	1.0000	67.46
31.5	9,819,759	464,901	0.0473	0.9527	67.46
32.5	8,773,951	194,825	0.0222	0.9778	64.27
33.5	8,422,050	39,287	0.0047	0.9953	62.84
34.5	8,556,222	79,728	0.0093	0.9907	62.55
35.5	8,449,806	15,243	0.0018	0.9982	61.96
36.5	8,626,973	40,750	0.0047	0.9953	61.85
37.5	8,147,957	40,460	0.0050	0.9950	61.56
38.5	7,933,465	259,464	0.0327	0.9673	61.25

DUKE ENERGY CAROLINAS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	7,677,531	95,574	0.0124	0.9876	59.25
40.5	7,796,262	35,414	0.0045	0.9955	58.51
41.5	7,753,614	17,255	0.0022	0.9978	58.25
42.5	7,713,340	256,582	0.0333	0.9667	58.12
43.5	6,416,868	50,669	0.0079	0.9921	56.18
44.5	6,408,043	340,083	0.0531	0.9469	55.74
45.5	2,890,502	109,660	0.0379	0.9621	52.78
46.5	2,779,456	67,082	0.0241	0.9759	50.78
47.5	2,691,297	33,286	0.0124	0.9876	49.55
48.5	2,658,011	2,290	0.0009	0.9991	48.94
49.5	2,691,064	12,271	0.0046	0.9954	48.90
50.5	2,800,149	41,835	0.0149	0.9851	48.68
51.5	2,784,033	11,842	0.0043	0.9957	47.95
52.5	2,872,006	13,958	0.0049	0.9951	47.74
53.5	2,857,566	82,457	0.0289	0.9711	47.51
54.5	2,818,392	227,619	0.0808	0.9192	46.14
55.5	1,722,434		0.0000	1.0000	42.41
56.5	1,722,434	10,317	0.0060	0.9940	42.41
57.5	1,686,505	166,070	0.0985	0.9015	42.16
58.5	1,508,462	1,704	0.0011	0.9989	38.01
59.5	1,506,758	61,771	0.0410	0.9590	37.97
60.5	1,444,987	2,420	0.0017	0.9983	36.41
61.5	1,442,567	2,403	0.0017	0.9983	36.35
62.5	1,440,079	2,651	0.0018	0.9982	36.29
63.5	1,389,219	2,441	0.0018	0.9982	36.22
64.5	1,342,424	6,153	0.0046	0.9954	36.16
65.5	1,336,271	38,070	0.0285	0.9715	35.99
66.5	1,269,720	75,454	0.0594	0.9406	34.97
67.5	1,181,721	800	0.0007	0.9993	32.89
68.5	1,180,447		0.0000	1.0000	32.87
69.5	1,174,129	20,973	0.0179	0.9821	32.87
70.5	1,144,061	2,861	0.0025	0.9975	32.28
71.5	1,140,231	576	0.0005	0.9995	32.20
72.5	1,135,555	42,557	0.0375	0.9625	32.18
73.5	1,092,782	56,341	0.0516	0.9484	30.98
74.5	1,035,358	4,335	0.0042	0.9958	29.38
75.5	1,021,956	34,922	0.0342	0.9658	29.26
76.5	968,995	4,779	0.0049	0.9951	28.26
77.5	910,620	582	0.0006	0.9994	28.12
78.5	908,838	71,281	0.0784	0.9216	28.10

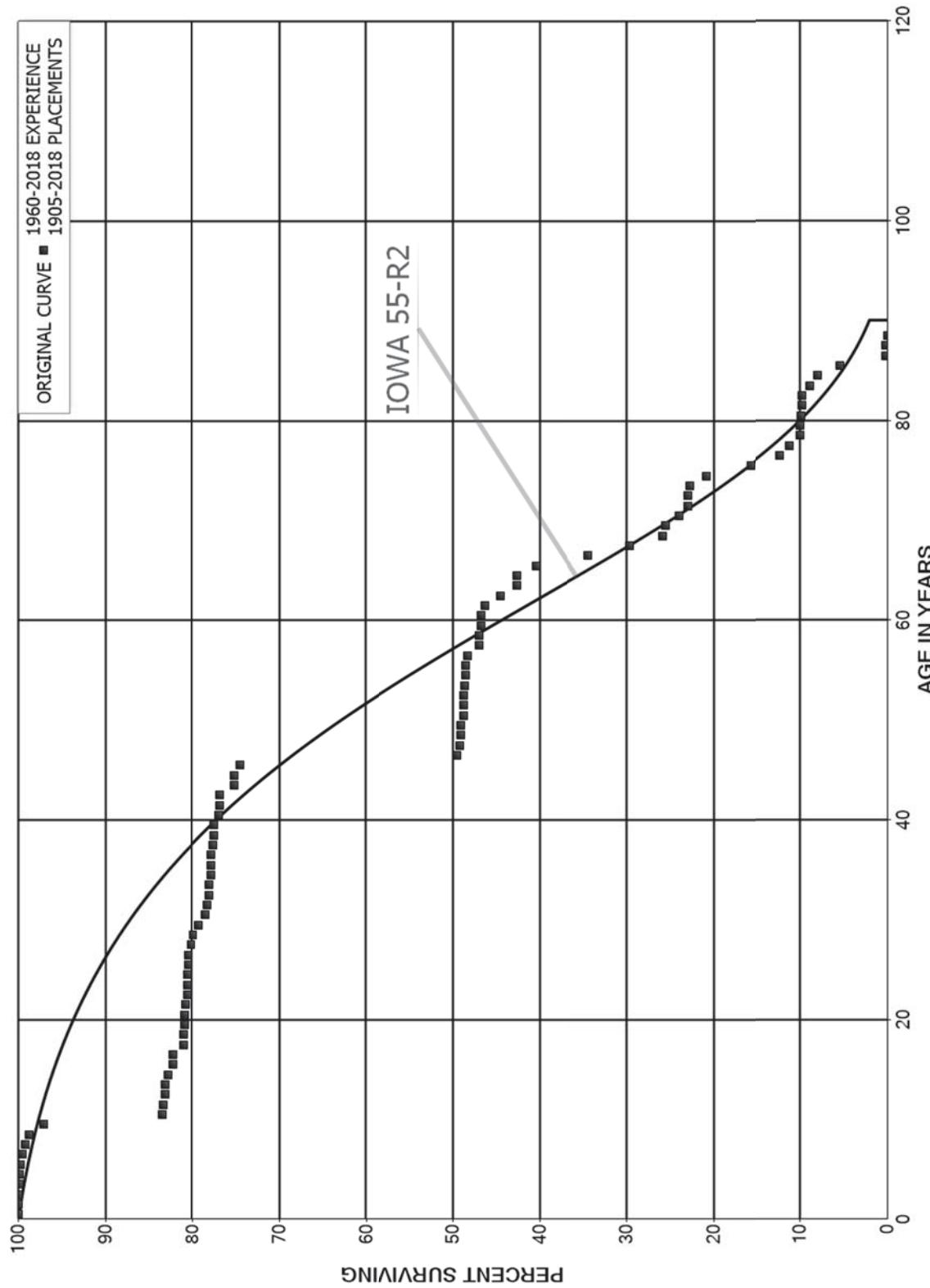
DUKE ENERGY CAROLINAS

ACCOUNT 334 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	837,557	1,394	0.0017	0.9983	25.90
80.5	836,163	29,738	0.0356	0.9644	25.85
81.5	806,425	95,290	0.1182	0.8818	24.93
82.5	711,113	29,874	0.0420	0.9580	21.99
83.5	680,498	11,812	0.0174	0.9826	21.06
84.5	716,199	24,504	0.0342	0.9658	20.70
85.5	688,009	39,126	0.0569	0.9431	19.99
86.5	648,883	41,482	0.0639	0.9361	18.85
87.5	607,401	7,307	0.0120	0.9880	17.65
88.5	600,094		0.0000	1.0000	17.44
89.5	598,406		0.0000	1.0000	17.44
90.5	598,406	40,865	0.0683	0.9317	17.44
91.5	557,541	61,685	0.1106	0.8894	16.24
92.5	495,856		0.0000	1.0000	14.45
93.5	359,438	2,218	0.0062	0.9938	14.45
94.5	357,220		0.0000	1.0000	14.36
95.5	259,328		0.0000	1.0000	14.36
96.5	259,328		0.0000	1.0000	14.36
97.5	259,328		0.0000	1.0000	14.36
98.5	259,328	1,462	0.0056	0.9944	14.36
99.5	257,866		0.0000	1.0000	14.28
100.5	257,866		0.0000	1.0000	14.28
101.5	257,866	1,070	0.0041	0.9959	14.28
102.5	243,648		0.0000	1.0000	14.22
103.5	204,917		0.0000	1.0000	14.22
104.5	204,917		0.0000	1.0000	14.22
105.5	204,917		0.0000	1.0000	14.22
106.5	204,917		0.0000	1.0000	14.22
107.5	204,917		0.0000	1.0000	14.22
108.5	169,054		0.0000	1.0000	14.22
109.5	89,180		0.0000	1.0000	14.22
110.5	89,180		0.0000	1.0000	14.22
111.5					14.22

DUKE ENERGY CAROLINAS
ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1905-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	81,907,651	12,745	0.0002	0.9998	100.00
0.5	79,242,993	4,779	0.0001	0.9999	99.98
1.5	77,914,520	17,113	0.0002	0.9998	99.98
2.5	58,923,606	60,280	0.0010	0.9990	99.96
3.5	49,791,685	15,719	0.0003	0.9997	99.85
4.5	52,152,337	55,499	0.0011	0.9989	99.82
5.5	50,984,572	106,121	0.0021	0.9979	99.72
6.5	50,373,031	185,598	0.0037	0.9963	99.51
7.5	42,228,081	192,130	0.0045	0.9955	99.14
8.5	40,586,288	668,644	0.0165	0.9835	98.69
9.5	39,782,534	5,566,329	0.1399	0.8601	97.07
10.5	32,674,761	29,256	0.0009	0.9991	83.48
11.5	32,059,559	71,144	0.0022	0.9978	83.41
12.5	31,853,703	11,367	0.0004	0.9996	83.22
13.5	32,042,205	146,122	0.0046	0.9954	83.19
14.5	31,848,387	190,747	0.0060	0.9940	82.82
15.5	31,494,456	29,111	0.0009	0.9991	82.32
16.5	30,723,329	446,791	0.0145	0.9855	82.24
17.5	30,028,870	12,874	0.0004	0.9996	81.05
18.5	29,593,728	3,719	0.0001	0.9999	81.01
19.5	29,537,227	31,226	0.0011	0.9989	81.00
20.5	29,336,265	13,853	0.0005	0.9995	80.92
21.5	29,179,777	85,227	0.0029	0.9971	80.88
22.5	28,820,506	14,247	0.0005	0.9995	80.64
23.5	28,401,534	4,324	0.0002	0.9998	80.60
24.5	28,150,898	25,120	0.0009	0.9991	80.59
25.5	27,785,843	10,502	0.0004	0.9996	80.52
26.5	27,630,410	89,380	0.0032	0.9968	80.49
27.5	5,969,645	23,848	0.0040	0.9960	80.23
28.5	5,675,120	41,276	0.0073	0.9927	79.91
29.5	4,439,116	44,089	0.0099	0.9901	79.33
30.5	4,153,695	15,726	0.0038	0.9962	78.54
31.5	3,641,752	8,540	0.0023	0.9977	78.24
32.5	3,242,067	350	0.0001	0.9999	78.06
33.5	3,174,910	9,669	0.0030	0.9970	78.05
34.5	3,154,569	120	0.0000	1.0000	77.81
35.5	3,145,268	623	0.0002	0.9998	77.81
36.5	3,120,661	8,678	0.0028	0.9972	77.79
37.5	3,092,030	655	0.0002	0.9998	77.58
38.5	2,930,675	2,852	0.0010	0.9990	77.56

DUKE ENERGY CAROLINAS

ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018			EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
39.5	2,641,439	17,099	0.0065	0.9935	77.48	
40.5	2,484,203	3,306	0.0013	0.9987	76.98	
41.5	2,457,896	580	0.0002	0.9998	76.88	
42.5	2,435,963	53,571	0.0220	0.9780	76.86	
43.5	2,169,346	1,123	0.0005	0.9995	75.17	
44.5	2,149,933	17,028	0.0079	0.9921	75.13	
45.5	1,211,718	407,605	0.3364	0.6636	74.54	
46.5	803,960	3,991	0.0050	0.9950	49.46	
47.5	482,018	1,689	0.0035	0.9965	49.22	
48.5	476,835	222	0.0005	0.9995	49.05	
49.5	487,181	2,619	0.0054	0.9946	49.02	
50.5	495,837	198	0.0004	0.9996	48.76	
51.5	526,400	615	0.0012	0.9988	48.74	
52.5	591,040	548	0.0009	0.9991	48.68	
53.5	590,492	1,449	0.0025	0.9975	48.64	
54.5	590,722		0.0000	1.0000	48.52	
55.5	590,722	3,100	0.0052	0.9948	48.52	
56.5	587,622	15,644	0.0266	0.9734	48.26	
57.5	571,978		0.0000	1.0000	46.98	
58.5	571,978	2,788	0.0049	0.9951	46.98	
59.5	569,190	564	0.0010	0.9990	46.75	
60.5	568,626	5,250	0.0092	0.9908	46.70	
61.5	563,376	21,220	0.0377	0.9623	46.27	
62.5	542,156	23,141	0.0427	0.9573	44.53	
63.5	519,015	203	0.0004	0.9996	42.63	
64.5	518,812	26,496	0.0511	0.9489	42.61	
65.5	492,316	73,175	0.1486	0.8514	40.44	
66.5	419,141	58,047	0.1385	0.8615	34.43	
67.5	361,094	46,668	0.1292	0.8708	29.66	
68.5	314,426	3,815	0.0121	0.9879	25.83	
69.5	310,611	19,492	0.0628	0.9372	25.51	
70.5	291,119	11,320	0.0389	0.9611	23.91	
71.5	279,799		0.0000	1.0000	22.98	
72.5	279,799	3,278	0.0117	0.9883	22.98	
73.5	276,521	23,352	0.0844	0.9156	22.71	
74.5	253,169	61,426	0.2426	0.7574	20.79	
75.5	191,743	42,586	0.2221	0.7779	15.75	
76.5	149,157	13,133	0.0880	0.9120	12.25	
77.5	136,024	15,584	0.1146	0.8854	11.17	
78.5	120,440		0.0000	1.0000	9.89	

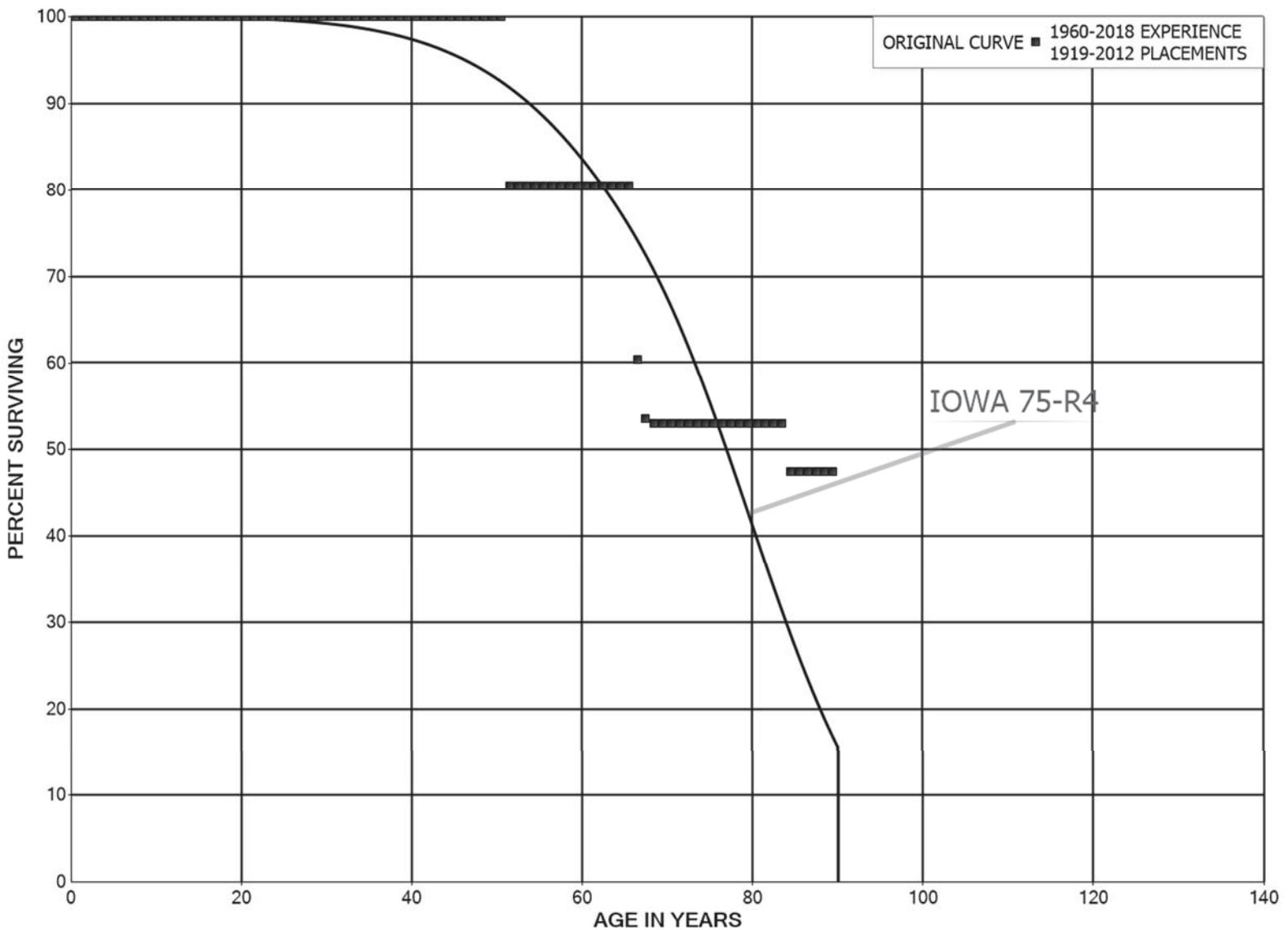
DUKE ENERGY CAROLINAS

ACCOUNT 335 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1905-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	120,440	99	0.0008	0.9992	9.89
80.5	120,341	1,403	0.0117	0.9883	9.88
81.5	118,938		0.0000	1.0000	9.77
82.5	118,938	11,822	0.0994	0.9006	9.77
83.5	107,116	10,414	0.0972	0.9028	8.80
84.5	96,702	30,761	0.3181	0.6819	7.94
85.5	65,941	63,996	0.9705	0.0295	5.42
86.5	1,945	211	0.1085	0.8915	0.16
87.5	1,734	1,734	1.0000		0.14
88.5					

DUKE ENERGY CAROLINAS
ACCOUNT 336 ROADS, RAILROADS AND BRIDGES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 336 ROADS, RAILROADS AND BRIDGES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2012

EXPERIENCE BAND 1960-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	21,656,467		0.0000	1.0000	100.00
0.5	21,656,467		0.0000	1.0000	100.00
1.5	21,656,467		0.0000	1.0000	100.00
2.5	21,656,467		0.0000	1.0000	100.00
3.5	21,656,592		0.0000	1.0000	100.00
4.5	21,739,245		0.0000	1.0000	100.00
5.5	21,784,814		0.0000	1.0000	100.00
6.5	19,994,491		0.0000	1.0000	100.00
7.5	20,020,852		0.0000	1.0000	100.00
8.5	20,020,852		0.0000	1.0000	100.00
9.5	19,972,000		0.0000	1.0000	100.00
10.5	19,974,830		0.0000	1.0000	100.00
11.5	19,974,830		0.0000	1.0000	100.00
12.5	19,974,830		0.0000	1.0000	100.00
13.5	19,974,830		0.0000	1.0000	100.00
14.5	19,974,830		0.0000	1.0000	100.00
15.5	19,974,830		0.0000	1.0000	100.00
16.5	19,974,830		0.0000	1.0000	100.00
17.5	20,166,680		0.0000	1.0000	100.00
18.5	20,209,069		0.0000	1.0000	100.00
19.5	20,209,069		0.0000	1.0000	100.00
20.5	20,209,069	1,289	0.0001	0.9999	100.00
21.5	20,207,780		0.0000	1.0000	99.99
22.5	20,207,780		0.0000	1.0000	99.99
23.5	20,111,505		0.0000	1.0000	99.99
24.5	20,111,505		0.0000	1.0000	99.99
25.5	20,111,505		0.0000	1.0000	99.99
26.5	20,111,505		0.0000	1.0000	99.99
27.5	2,241,806		0.0000	1.0000	99.99
28.5	2,233,309		0.0000	1.0000	99.99
29.5	2,233,309		0.0000	1.0000	99.99
30.5	1,599,673		0.0000	1.0000	99.99
31.5	1,599,673		0.0000	1.0000	99.99
32.5	1,599,673		0.0000	1.0000	99.99
33.5	1,599,673		0.0000	1.0000	99.99
34.5	1,599,673		0.0000	1.0000	99.99
35.5	1,599,673		0.0000	1.0000	99.99
36.5	1,599,673		0.0000	1.0000	99.99
37.5	1,599,673		0.0000	1.0000	99.99
38.5	1,599,673		0.0000	1.0000	99.99

DUKE ENERGY CAROLINAS

ACCOUNT 336 ROADS, RAILROADS AND BRIDGES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2012			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	1,599,673		0.0000	1.0000	99.99
40.5	1,693,953		0.0000	1.0000	99.99
41.5	1,689,295		0.0000	1.0000	99.99
42.5	1,689,295		0.0000	1.0000	99.99
43.5	1,610,566		0.0000	1.0000	99.99
44.5	1,610,566		0.0000	1.0000	99.99
45.5	1,195,976		0.0000	1.0000	99.99
46.5	1,195,976		0.0000	1.0000	99.99
47.5	1,195,976		0.0000	1.0000	99.99
48.5	1,193,532		0.0000	1.0000	99.99
49.5	1,193,532		0.0000	1.0000	99.99
50.5	1,193,532	232,152	0.1945	0.8055	99.99
51.5	961,380		0.0000	1.0000	80.54
52.5	961,380		0.0000	1.0000	80.54
53.5	961,380		0.0000	1.0000	80.54
54.5	961,380		0.0000	1.0000	80.54
55.5	511,288		0.0000	1.0000	80.54
56.5	511,288		0.0000	1.0000	80.54
57.5	511,288		0.0000	1.0000	80.54
58.5	511,288		0.0000	1.0000	80.54
59.5	511,288		0.0000	1.0000	80.54
60.5	511,288		0.0000	1.0000	80.54
61.5	511,288		0.0000	1.0000	80.54
62.5	511,163		0.0000	1.0000	80.54
63.5	428,510		0.0000	1.0000	80.54
64.5	382,941		0.0000	1.0000	80.54
65.5	382,941	95,925	0.2505	0.7495	80.54
66.5	260,655	29,471	0.1131	0.8869	60.37
67.5	231,184	2,773	0.0120	0.9880	53.54
68.5	219,733		0.0000	1.0000	52.90
69.5	216,903		0.0000	1.0000	52.90
70.5	216,903		0.0000	1.0000	52.90
71.5	216,903		0.0000	1.0000	52.90
72.5	216,903		0.0000	1.0000	52.90
73.5	216,903		0.0000	1.0000	52.90
74.5	216,903		0.0000	1.0000	52.90
75.5	216,903		0.0000	1.0000	52.90
76.5	123,751		0.0000	1.0000	52.90
77.5	94,280		0.0000	1.0000	52.90
78.5	94,280		0.0000	1.0000	52.90

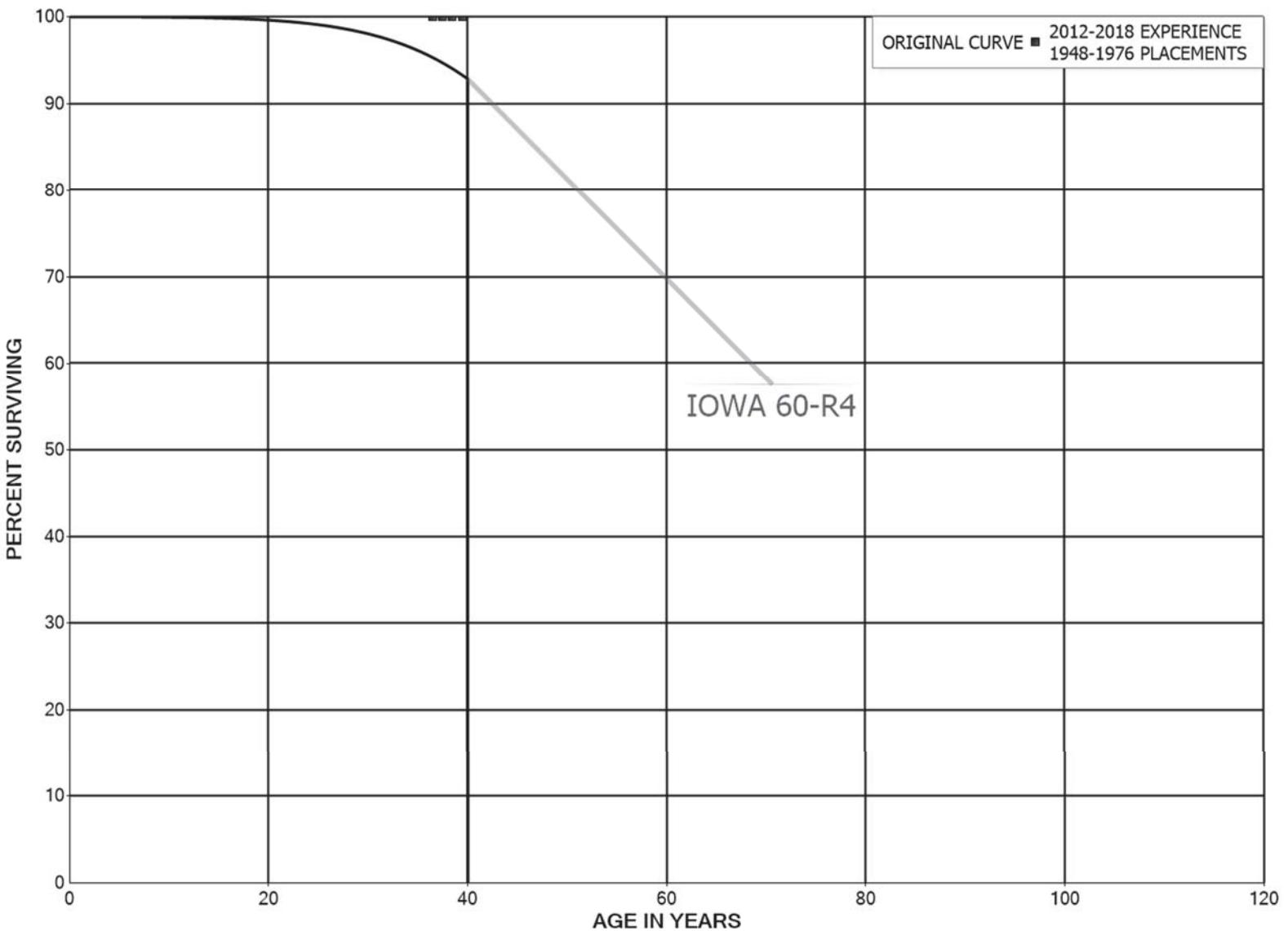
DUKE ENERGY CAROLINAS

ACCOUNT 336 ROADS, RAILROADS AND BRIDGES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2012			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	94,280		0.0000	1.0000	52.90
80.5	94,280		0.0000	1.0000	52.90
81.5	94,280		0.0000	1.0000	52.90
82.5	94,280		0.0000	1.0000	52.90
83.5	94,280	9,881	0.1048	0.8952	52.90
84.5	84,399		0.0000	1.0000	47.36
85.5	84,399		0.0000	1.0000	47.36
86.5	84,399		0.0000	1.0000	47.36
87.5	84,399		0.0000	1.0000	47.36
88.5	84,399		0.0000	1.0000	47.36
89.5	84,399		0.0000	1.0000	47.36
90.5	84,399		0.0000	1.0000	47.36
91.5	84,399		0.0000	1.0000	47.36
92.5	84,399		0.0000	1.0000	47.36
93.5	84,399		0.0000	1.0000	47.36
94.5	84,399		0.0000	1.0000	47.36
95.5	84,399		0.0000	1.0000	47.36
96.5	84,399		0.0000	1.0000	47.36
97.5	84,399		0.0000	1.0000	47.36
98.5	84,399		0.0000	1.0000	47.36
99.5					47.36

DUKE ENERGY CAROLINAS
ACCOUNT 340 RIGHTS OF WAY
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 340 RIGHTS OF WAY

ORIGINAL LIFE TABLE

PLACEMENT BAND 1948-1976

EXPERIENCE BAND 2012-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0					
0.5					
1.5					
2.5					
3.5					
4.5					
5.5					
6.5					
7.5					
8.5					
9.5					
10.5					
11.5					
12.5					
13.5					
14.5					
15.5					
16.5					
17.5					
18.5					
19.5					
20.5					
21.5					
22.5					
23.5					
24.5					
25.5					
26.5					
27.5					
28.5					
29.5					
30.5					
31.5					
32.5					
33.5					
34.5					
35.5					
36.5	4,000	0.0000	1.0000	100.00	
37.5	4,000	0.0000	1.0000	100.00	
38.5	4,000	0.0000	1.0000	100.00	

DUKE ENERGY CAROLINAS

ACCOUNT 340 RIGHTS OF WAY

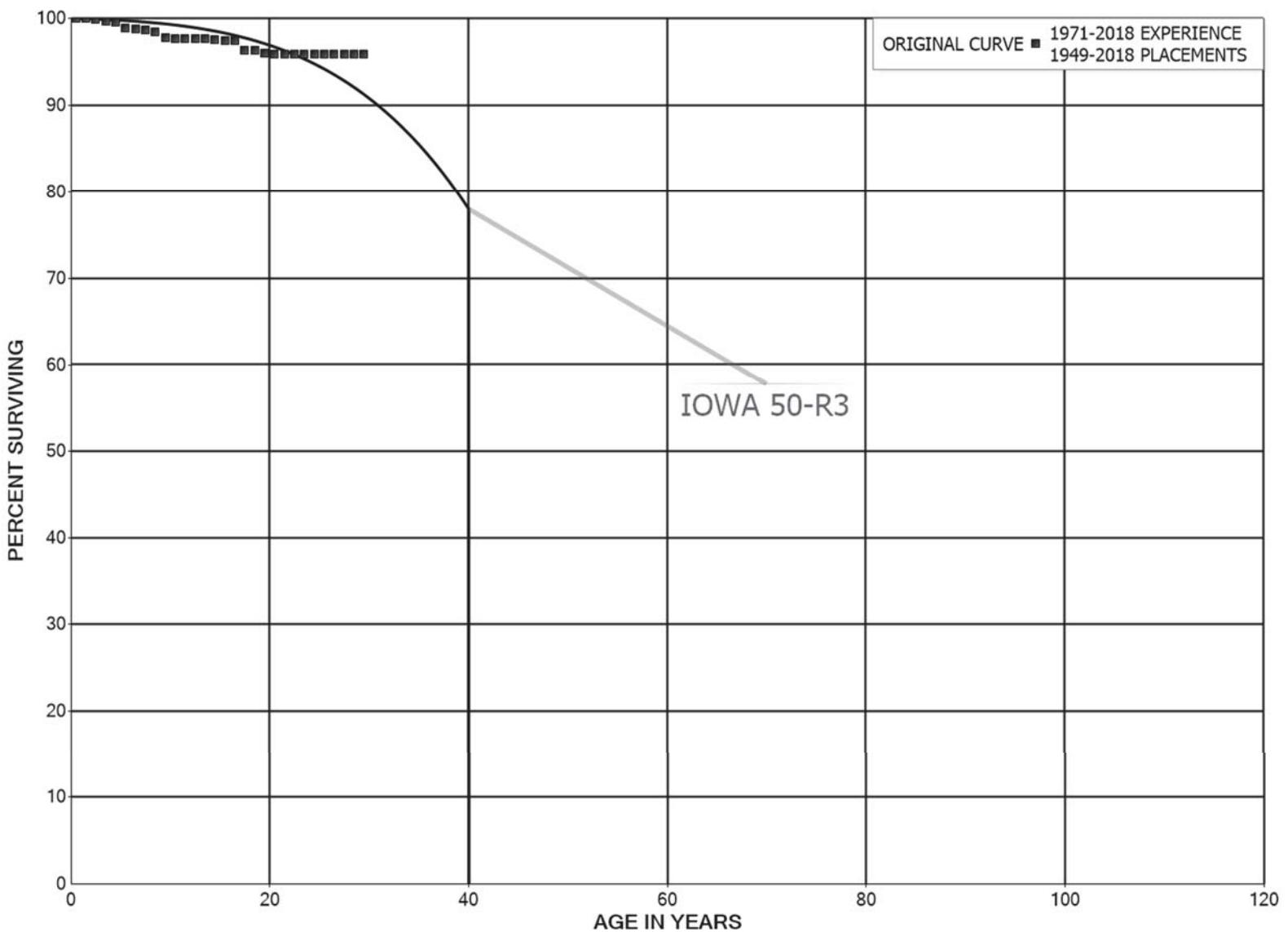
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1948-1976

EXPERIENCE BAND 2012-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	4,000		0.0000	1.0000	100.00
40.5	4,000		0.0000	1.0000	100.00
41.5	4,000		0.0000	1.0000	100.00
42.5					100.00
43.5					
44.5					
45.5					
46.5					
47.5					
48.5					
49.5					
50.5					
51.5					
52.5					
53.5					
54.5					
55.5					
56.5					
57.5					
58.5					
59.5					
60.5					
61.5					
62.5	202		0.0000		
63.5	656		0.0000		
64.5	3,693		0.0000		
65.5	3,693		0.0000		
66.5	3,693		0.0000		
67.5	3,693		0.0000		
68.5	3,491		0.0000		
69.5	3,037		0.0000		
70.5					

DUKE ENERGY CAROLINAS
ACCOUNT 341 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1949-2018			EXPERIENCE BAND 1971-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	373,181,491		0.0000	1.0000	100.00
0.5	358,938,691	64,701	0.0002	0.9998	100.00
1.5	341,064,913	430,633	0.0013	0.9987	99.98
2.5	327,659,694	906,703	0.0028	0.9972	99.86
3.5	315,864,175	217,436	0.0007	0.9993	99.58
4.5	314,297,073	2,216,877	0.0071	0.9929	99.51
5.5	310,455,017	386,724	0.0012	0.9988	98.81
6.5	187,616,087	44,098	0.0002	0.9998	98.69
7.5	61,066,262	172,128	0.0028	0.9972	98.66
8.5	60,158,897	432,599	0.0072	0.9928	98.38
9.5	59,352,262	11,456	0.0002	0.9998	97.68
10.5	58,198,847		0.0000	1.0000	97.66
11.5	57,992,537		0.0000	1.0000	97.66
12.5	57,904,454		0.0000	1.0000	97.66
13.5	57,904,454	85,907	0.0015	0.9985	97.66
14.5	57,639,401	63,053	0.0011	0.9989	97.51
15.5	54,924,151	35,566	0.0006	0.9994	97.41
16.5	28,739,880	308,796	0.0107	0.9893	97.34
17.5	28,347,353	5,866	0.0002	0.9998	96.30
18.5	28,301,344	92,330	0.0033	0.9967	96.28
19.5	27,488,009	37,272	0.0014	0.9986	95.96
20.5	28,182,439		0.0000	1.0000	95.83
21.5	27,213,464		0.0000	1.0000	95.83
22.5	27,213,464	3,334	0.0001	0.9999	95.83
23.5	1,335,418		0.0000	1.0000	95.82
24.5	1,316,233		0.0000	1.0000	95.82
25.5	1,316,233		0.0000	1.0000	95.82
26.5	403,807		0.0000	1.0000	95.82
27.5	403,807		0.0000	1.0000	95.82
28.5	365,842		0.0000	1.0000	95.82
29.5					95.82
30.5	44,051		0.0000		
31.5	44,051		0.0000		
32.5	44,051		0.0000		
33.5	81,180		0.0000		
34.5	224,592		0.0000		
35.5	224,592		0.0000		
36.5	180,541		0.0000		
37.5	180,541		0.0000		
38.5	180,541		0.0000		

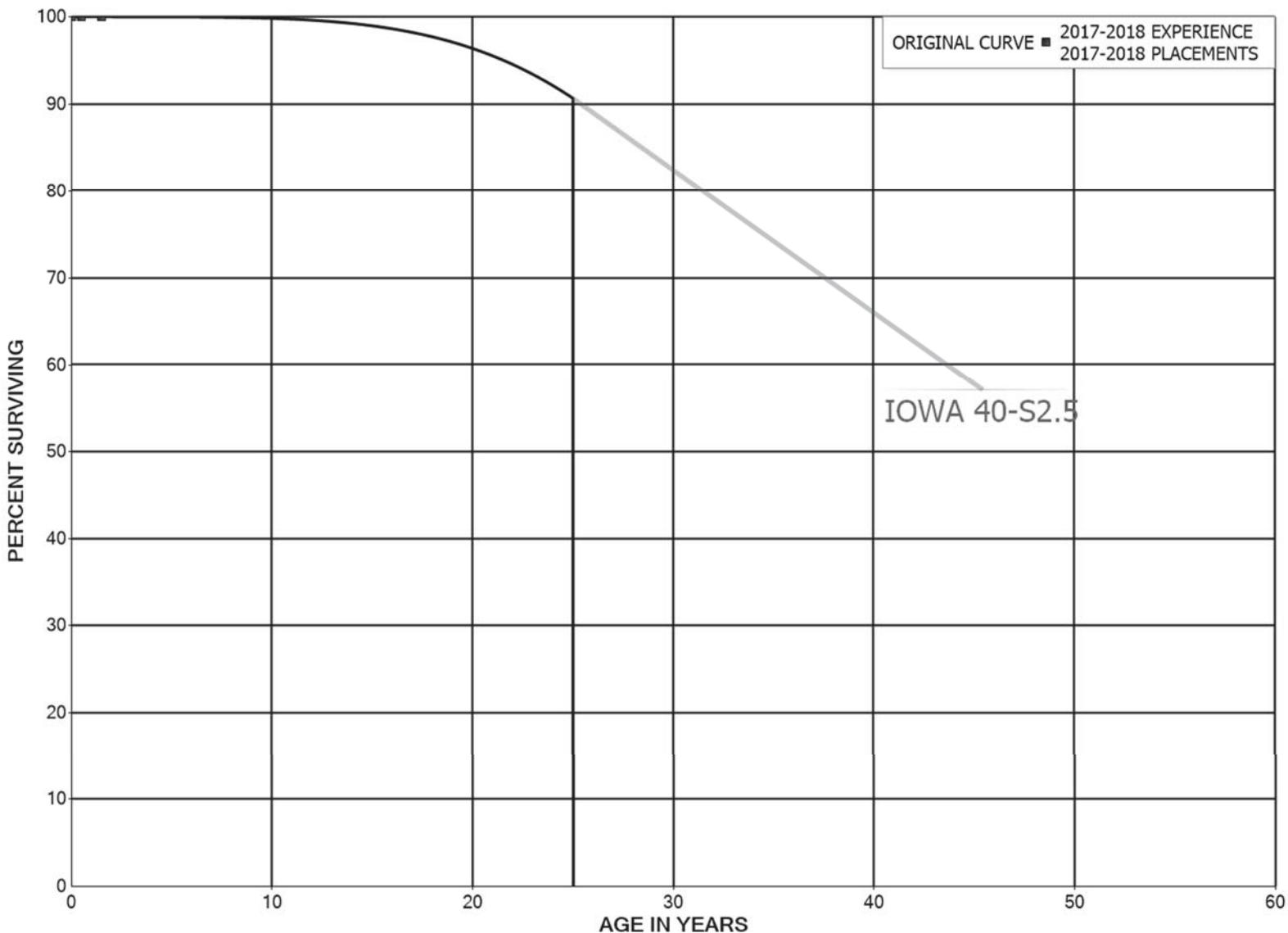
DUKE ENERGY CAROLINAS

ACCOUNT 341 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1949-2018		EXPERIENCE BAND 1971-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	143,412		0.0000		
40.5					
41.5					
42.5					
43.5					
44.5					
45.5					
46.5					
47.5					
48.5					
49.5					
50.5					
51.5					
52.5					
53.5					
54.5					
55.5					
56.5					
57.5					
58.5					
59.5					
60.5					
61.5					
62.5					
63.5	553,204		0.0000		
64.5	553,204		0.0000		
65.5	553,204		0.0000		
66.5	553,204		0.0000		
67.5	553,204		0.0000		
68.5	553,204	44,511	0.0805		
69.5					

DUKE ENERGY CAROLINAS
ACCOUNT 341.66 STRUCTURES AND IMPROVEMENTS - SOLAR
ORIGINAL AND SMOOTH SURVIVOR CURVES



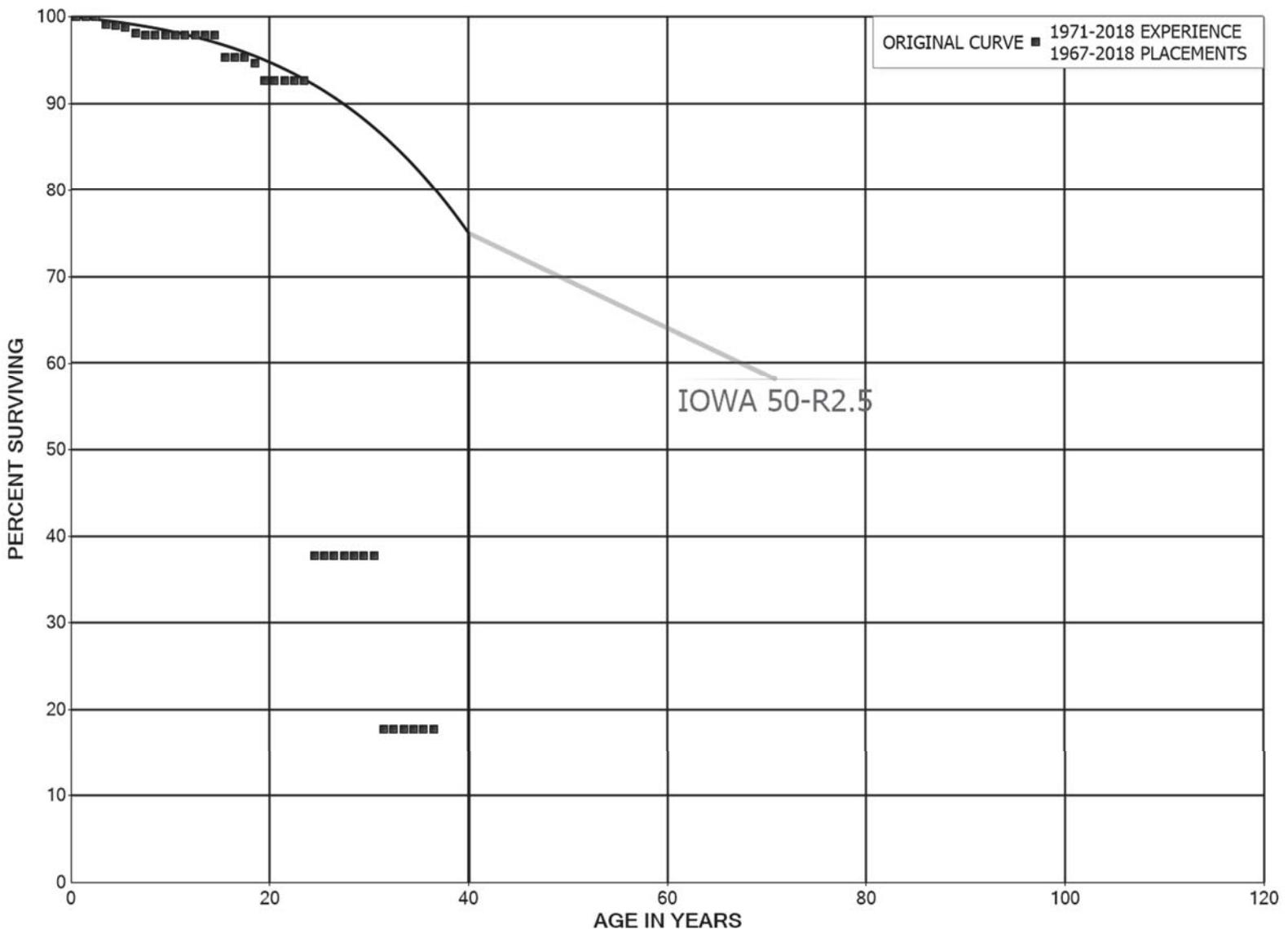
DUKE ENERGY CAROLINAS

ACCOUNT 341.66 STRUCTURES AND IMPROVEMENTS - SOLAR

ORIGINAL LIFE TABLE

PLACEMENT BAND 2017-2018		EXPERIENCE BAND 2017-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	255,987		0.0000	1.0000	100.00
0.5	101,358		0.0000	1.0000	100.00
1.5					100.00

DUKE ENERGY CAROLINAS
ACCOUNT 342 FUEL HOLDERS, PRODUCERS AND ACCESSORIES
ORIGINAL AND SMOOTH SURVIVOR CURVES



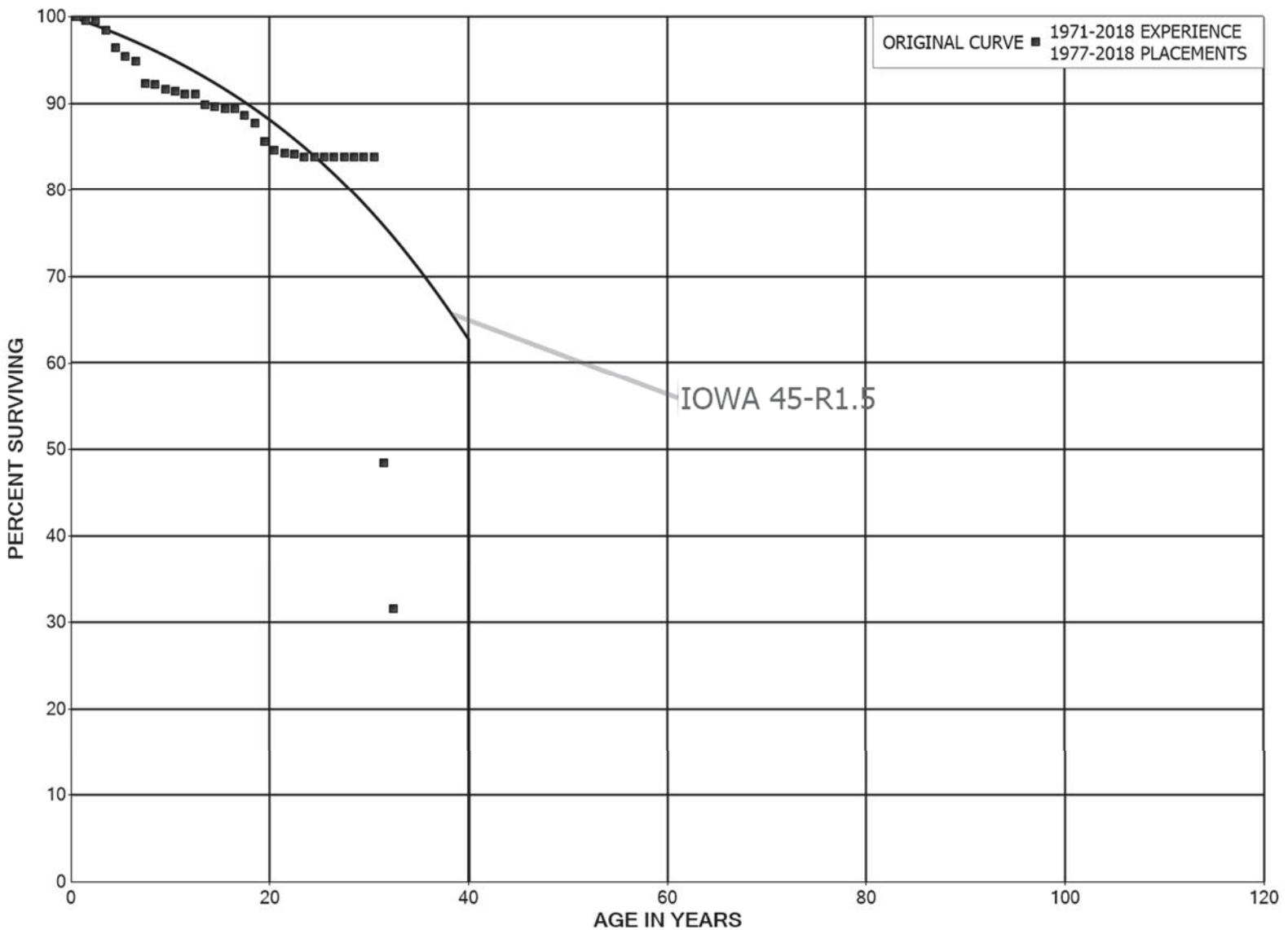
DUKE ENERGY CAROLINAS

ACCOUNT 342 FUEL HOLDERS, PRODUCERS AND ACCESSORIES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1967-2018		EXPERIENCE BAND 1971-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	148,970,828		0.0000	1.0000	100.00
0.5	127,039,091	89,138	0.0007	0.9993	100.00
1.5	126,920,967	47,717	0.0004	0.9996	99.93
2.5	123,646,162	1,048,339	0.0085	0.9915	99.89
3.5	79,254,151	37,713	0.0005	0.9995	99.05
4.5	78,319,228	256,057	0.0033	0.9967	99.00
5.5	78,063,171	470,072	0.0060	0.9940	98.67
6.5	58,575,532	163,501	0.0028	0.9972	98.08
7.5	30,407,311		0.0000	1.0000	97.81
8.5	30,370,087		0.0000	1.0000	97.81
9.5	30,339,572		0.0000	1.0000	97.81
10.5	30,339,572		0.0000	1.0000	97.81
11.5	30,339,572		0.0000	1.0000	97.81
12.5	30,339,572		0.0000	1.0000	97.81
13.5	30,339,572		0.0000	1.0000	97.81
14.5	30,339,572	792,031	0.0261	0.9739	97.81
15.5	24,528,291		0.0000	1.0000	95.25
16.5	14,646,254		0.0000	1.0000	95.25
17.5	14,646,254	105,118	0.0072	0.9928	95.25
18.5	14,284,466	288,291	0.0202	0.9798	94.57
19.5	13,996,175		0.0000	1.0000	92.66
20.5	13,151,108		0.0000	1.0000	92.66
21.5	13,151,108		0.0000	1.0000	92.66
22.5	13,091,069		0.0000	1.0000	92.66
23.5	566,452	335,794	0.5928	0.4072	92.66
24.5	15,074		0.0000	1.0000	37.73
25.5	15,074		0.0000	1.0000	37.73
26.5	15,074		0.0000	1.0000	37.73
27.5	15,074		0.0000	1.0000	37.73
28.5	15,074		0.0000	1.0000	37.73
29.5	15,074		0.0000	1.0000	37.73
30.5	15,074	8,000	0.5307	0.4693	37.73
31.5	7,074		0.0000	1.0000	17.71
32.5	7,074		0.0000	1.0000	17.71
33.5	7,074		0.0000	1.0000	17.71
34.5	7,074		0.0000	1.0000	17.71
35.5	7,074		0.0000	1.0000	17.71
36.5					17.71

DUKE ENERGY CAROLINAS
ACCOUNT 343 PRIME MOVERS
ORIGINAL AND SMOOTH SURVIVOR CURVES



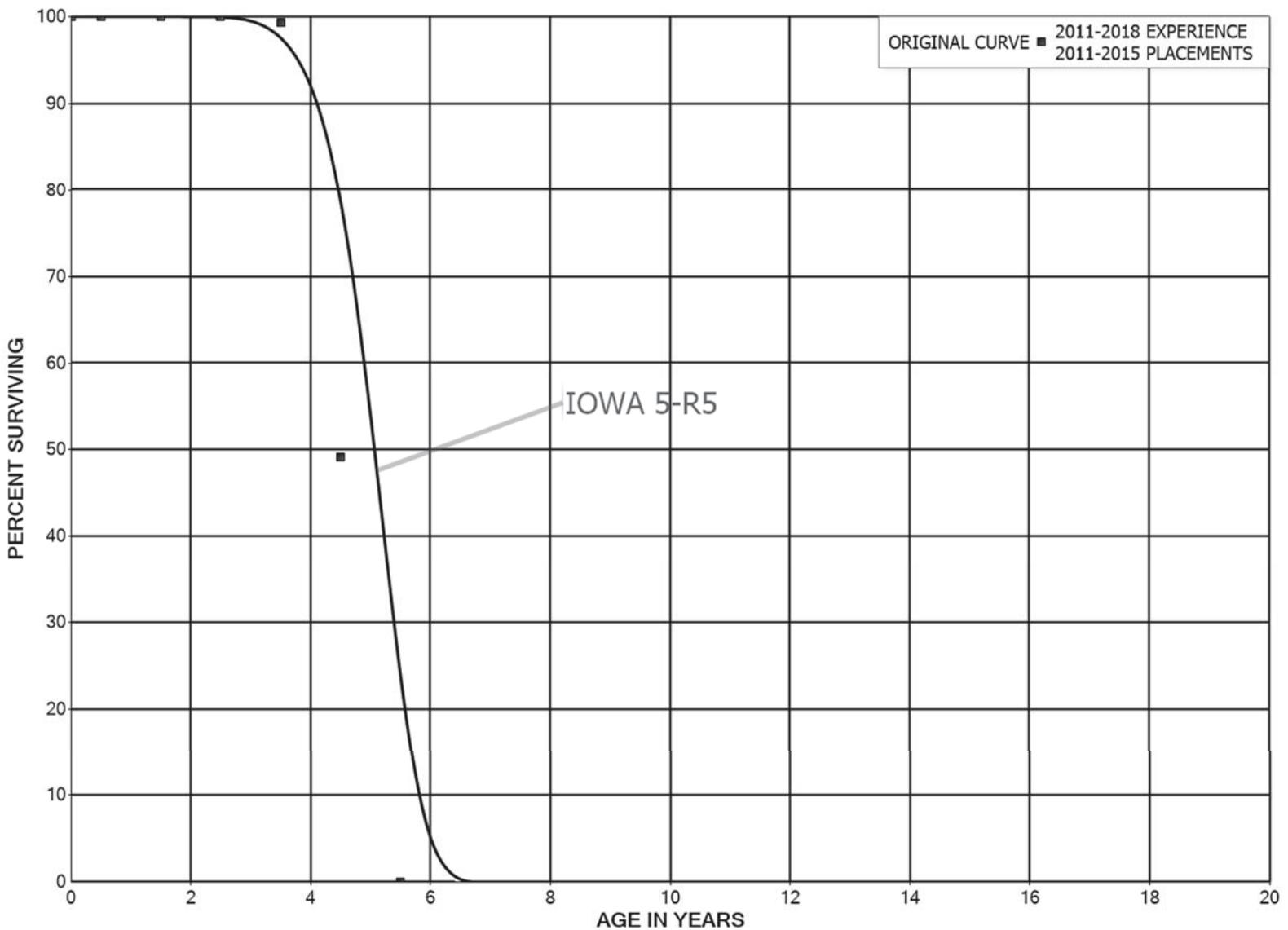
DUKE ENERGY CAROLINAS

ACCOUNT 343 PRIME MOVERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1977-2018			EXPERIENCE BAND 1971-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,365,553,626		0.0000	1.0000	100.00
0.5	948,933,308	4,377,080	0.0046	0.9954	100.00
1.5	937,197,286		0.0000	1.0000	99.54
2.5	931,473,382	10,373,813	0.0111	0.9889	99.54
3.5	906,200,929	19,143,202	0.0211	0.9789	98.43
4.5	871,523,937	8,253,614	0.0095	0.9905	96.35
5.5	834,721,677	5,600,236	0.0067	0.9933	95.44
6.5	650,812,289	17,509,200	0.0269	0.9731	94.80
7.5	498,955,148	303,883	0.0006	0.9994	92.25
8.5	496,412,766	3,114,418	0.0063	0.9937	92.19
9.5	492,850,019	889,371	0.0018	0.9982	91.61
10.5	485,012,641	2,182,596	0.0045	0.9955	91.45
11.5	426,148,679	66,682	0.0002	0.9998	91.04
12.5	426,053,485	5,318,979	0.0125	0.9875	91.02
13.5	420,728,458	1,400,603	0.0033	0.9967	89.89
14.5	419,871,797	743,806	0.0018	0.9982	89.59
15.5	331,379,940	292,058	0.0009	0.9991	89.43
16.5	234,028,553	1,975,747	0.0084	0.9916	89.35
17.5	229,908,970	2,119,667	0.0092	0.9908	88.59
18.5	226,802,276	5,625,497	0.0248	0.9752	87.78
19.5	219,709,228	2,540,494	0.0116	0.9884	85.60
20.5	217,091,479	762,950	0.0035	0.9965	84.61
21.5	216,328,529	449,219	0.0021	0.9979	84.31
22.5	164,550,238	627,533	0.0038	0.9962	84.14
23.5	558,693		0.0000	1.0000	83.82
24.5	831,062		0.0000	1.0000	83.82
25.5	831,062		0.0000	1.0000	83.82
26.5	831,062		0.0000	1.0000	83.82
27.5	828,702		0.0000	1.0000	83.82
28.5	828,649		0.0000	1.0000	83.82
29.5	828,649		0.0000	1.0000	83.82
30.5	556,280	234,882	0.4222	0.5778	83.82
31.5	321,398	112,236	0.3492	0.6508	48.43
32.5					31.52
33.5					
34.5	542,012		0.0000		
35.5	1,539,643		0.0000		
36.5	1,539,643		0.0000		
37.5	1,539,643		0.0000		
38.5	1,539,643	5,004	0.0033		
39.5	1,534,639		0.0000		
40.5	992,627		0.0000		
41.5					

DUKE ENERGY CAROLINAS
ACCOUNT 343.1 PRIME MOVERS - ROTABLE PARTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



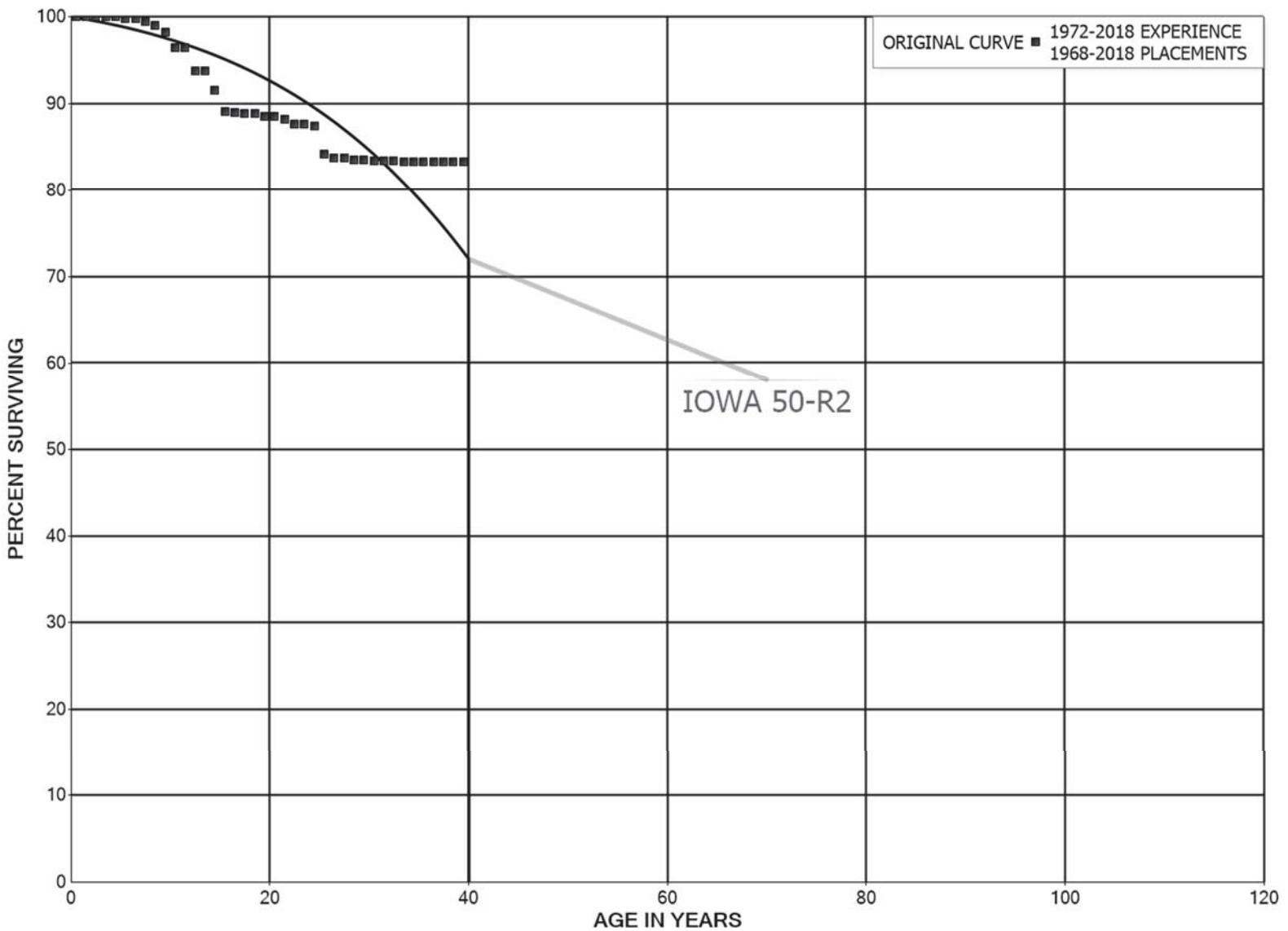
DUKE ENERGY CAROLINAS

ACCOUNT 343.1 PRIME MOVERS - ROTABLE PARTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 2011-2015		EXPERIENCE BAND 2011-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	136,244,663		0.0000	1.0000	100.00
0.5	136,244,663		0.0000	1.0000	100.00
1.5	136,244,663		0.0000	1.0000	100.00
2.5	136,244,663	943,112	0.0069	0.9931	100.00
3.5	99,267,201	50,188,881	0.5056	0.4944	99.31
4.5	15,402,407	15,402,407	1.0000		49.10
5.5					

DUKE ENERGY CAROLINAS
ACCOUNT 344 GENERATORS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 344 GENERATORS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1968-2018			EXPERIENCE BAND 1972-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	880,712,069		0.0000	1.0000	100.00
0.5	829,196,045		0.0000	1.0000	100.00
1.5	825,602,270		0.0000	1.0000	100.00
2.5	819,731,023		0.0000	1.0000	100.00
3.5	818,712,205	239,905	0.0003	0.9997	100.00
4.5	816,731,661	1,597,002	0.0020	0.9980	99.97
5.5	813,230,488	823,347	0.0010	0.9990	99.78
6.5	569,171,225	1,762,919	0.0031	0.9969	99.67
7.5	338,001,795	1,397,437	0.0041	0.9959	99.37
8.5	333,759,384	2,678,372	0.0080	0.9920	98.95
9.5	351,816,753	6,370,402	0.0181	0.9819	98.16
10.5	357,428,095		0.0000	1.0000	96.38
11.5	371,984,569	10,131,295	0.0272	0.9728	96.38
12.5	375,995,533		0.0000	1.0000	93.76
13.5	375,222,430	8,909,950	0.0237	0.9763	93.76
14.5	364,149,268	10,011,410	0.0275	0.9725	91.53
15.5	354,136,496	136,223	0.0004	0.9996	89.02
16.5	353,437,038	580,894	0.0016	0.9984	88.98
17.5	352,262,087	107,052	0.0003	0.9997	88.83
18.5	142,843,023	561,188	0.0039	0.9961	88.81
19.5	142,207,842		0.0000	1.0000	88.46
20.5	142,207,842	505,927	0.0036	0.9964	88.46
21.5	141,169,580	832,894	0.0059	0.9941	88.14
22.5	121,779,677	69,655	0.0006	0.9994	87.62
23.5	62,865,131	129,989	0.0021	0.9979	87.57
24.5	62,735,142	2,277,988	0.0363	0.9637	87.39
25.5	60,359,449	341,253	0.0057	0.9943	84.22
26.5	60,018,196	23,430	0.0004	0.9996	83.74
27.5	59,993,757	185,104	0.0031	0.9969	83.71
28.5	59,808,653		0.0000	1.0000	83.45
29.5	59,808,653	10,450	0.0002	0.9998	83.45
30.5	59,798,203	26,254	0.0004	0.9996	83.44
31.5	59,771,949	13,414	0.0002	0.9998	83.40
32.5	59,758,535	82,009	0.0014	0.9986	83.38
33.5	59,676,526		0.0000	1.0000	83.27
34.5	59,676,526	12,883	0.0002	0.9998	83.27
35.5	59,663,643	4,554	0.0001	0.9999	83.25
36.5	59,659,089	5,003	0.0001	0.9999	83.24
37.5	59,250,985		0.0000	1.0000	83.24
38.5	59,250,985		0.0000	1.0000	83.24

DUKE ENERGY CAROLINAS

ACCOUNT 344 GENERATORS

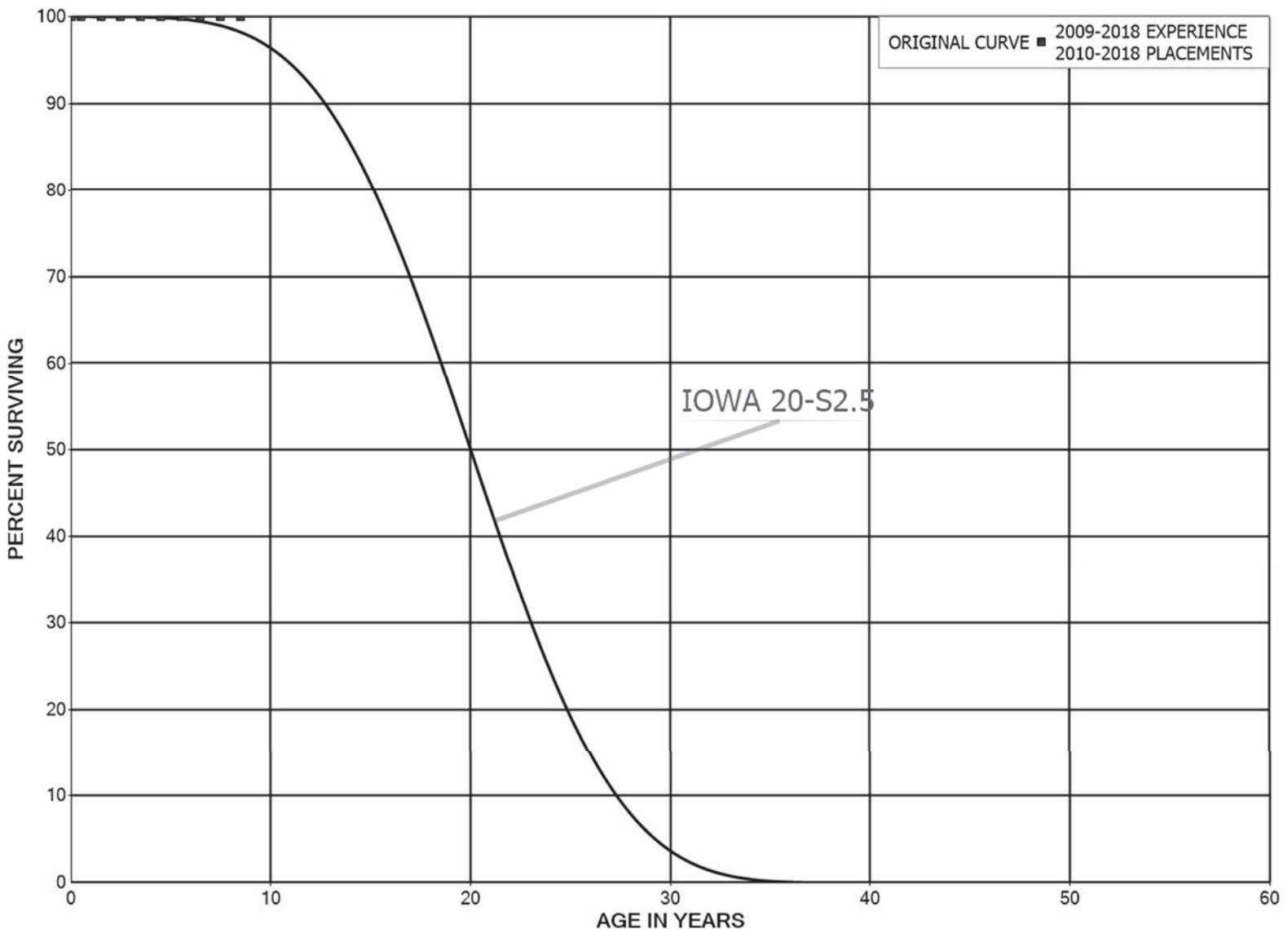
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1968-2018

EXPERIENCE BAND 1972-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	59,250,985	7,933,138	0.1339	0.8661	83.24
40.5	49,722,647		0.0000	1.0000	72.09
41.5	30,162,631		0.0000	1.0000	72.09
42.5	18,369,938	2,560,340	0.1394	0.8606	72.09
43.5	5,638,762	5,638,762	1.0000		62.04
44.5					

DUKE ENERGY CAROLINAS
ACCOUNT 344.66 GENERATORS - SOLAR - GENERAL
ORIGINAL AND SMOOTH SURVIVOR CURVES

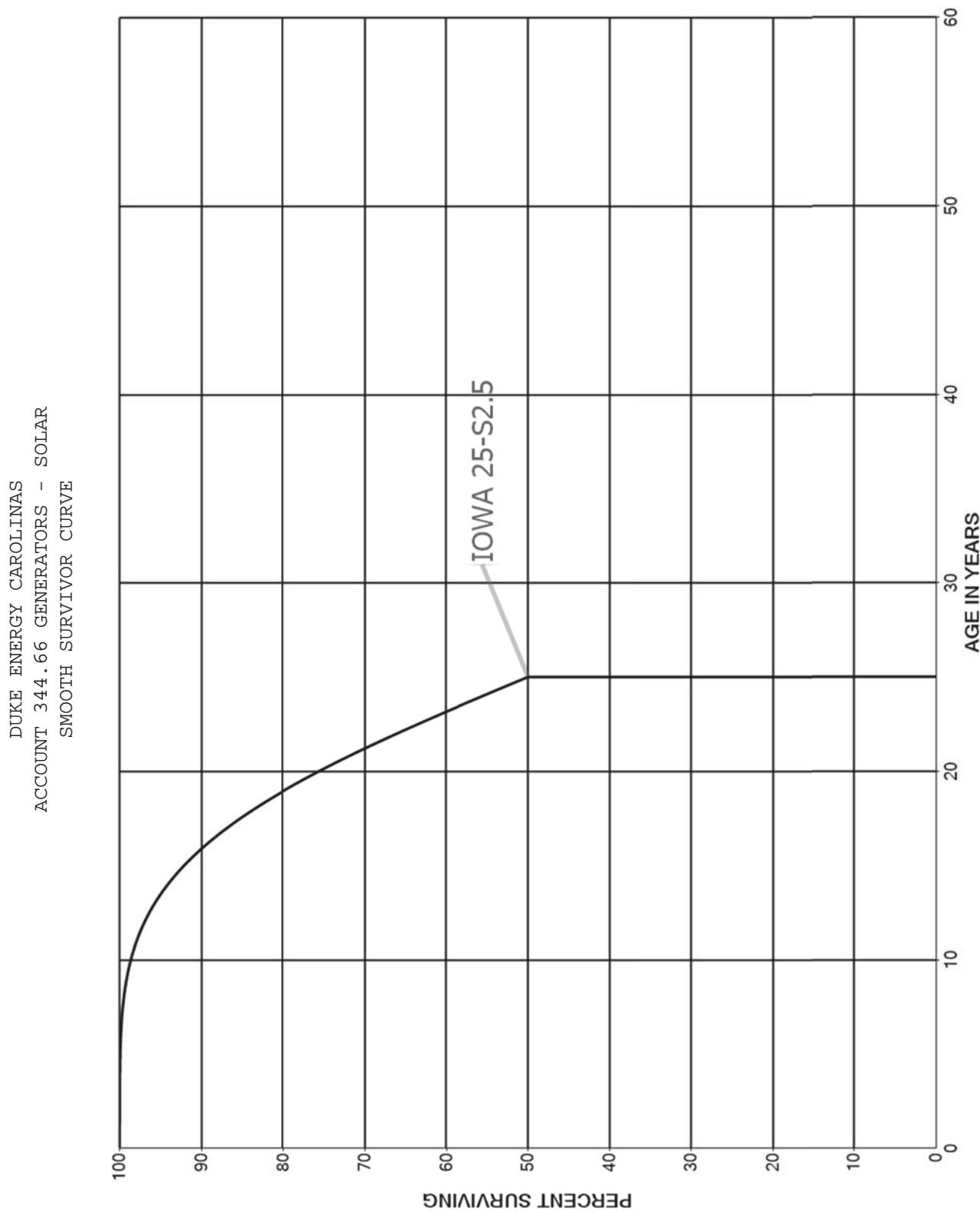


DUKE ENERGY CAROLINAS

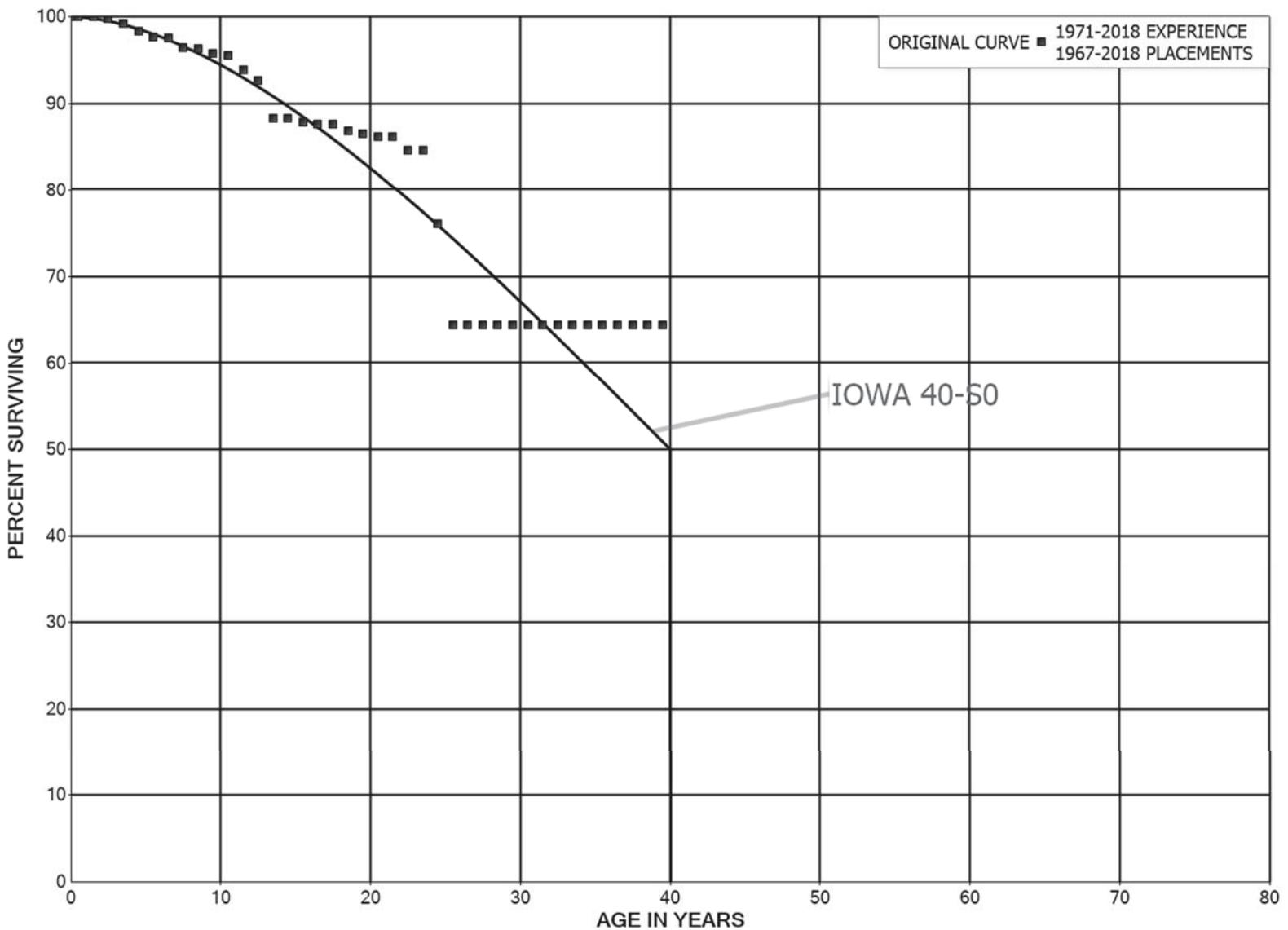
ACCOUNT 344.66 GENERATORS - SOLAR - GENERAL

ORIGINAL LIFE TABLE

PLACEMENT BAND 2010-2018		EXPERIENCE BAND 2009-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	180,135,619		0.0000	1.0000	100.00
0.5	170,045,758		0.0000	1.0000	100.00
1.5	57,707,380		0.0000	1.0000	100.00
2.5	28,317,018		0.0000	1.0000	100.00
3.5	28,317,018		0.0000	1.0000	100.00
4.5	28,317,018		0.0000	1.0000	100.00
5.5	28,317,018	2	0.0000	1.0000	100.00
6.5	27,405,715	15	0.0000	1.0000	100.00
7.5	22,978,300	113	0.0000	1.0000	100.00
8.5					100.00



DUKE ENERGY CAROLINAS
ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



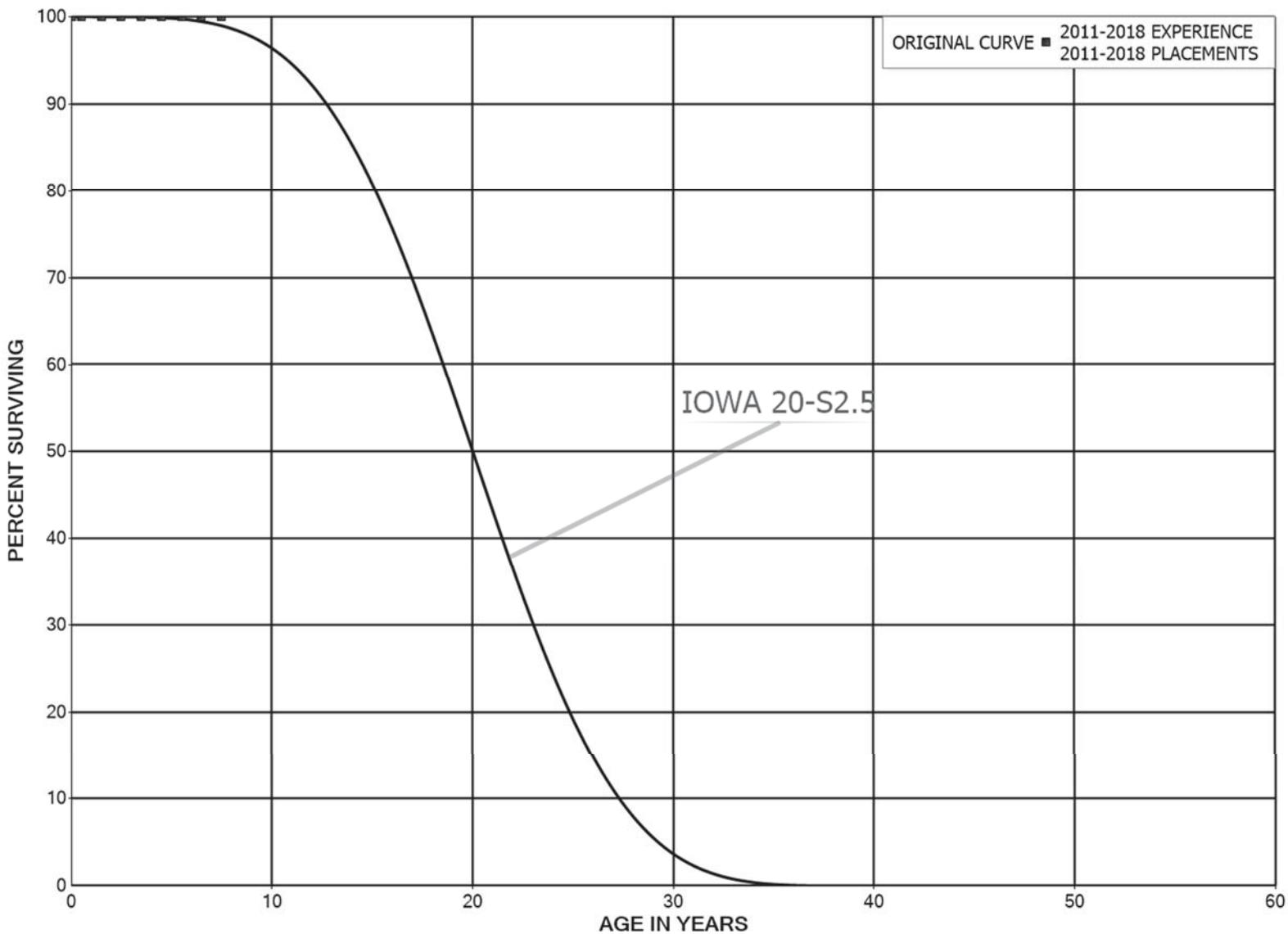
DUKE ENERGY CAROLINAS

ACCOUNT 345 ACCESSORY ELECTRIC EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1967-2018			EXPERIENCE BAND 1971-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	222,297,286		0.0000	1.0000	100.00
0.5	157,218,465	45,994	0.0003	0.9997	100.00
1.5	156,239,354	381,243	0.0024	0.9976	99.97
2.5	152,300,722	842,494	0.0055	0.9945	99.73
3.5	150,356,903	1,388,980	0.0092	0.9908	99.18
4.5	147,221,631	957,234	0.0065	0.9935	98.26
5.5	138,142,632	214,739	0.0016	0.9984	97.62
6.5	92,358,960	1,004,666	0.0109	0.9891	97.47
7.5	44,729,366	67,584	0.0015	0.9985	96.41
8.5	44,449,623	227,554	0.0051	0.9949	96.26
9.5	43,767,994	110,249	0.0025	0.9975	95.77
10.5	42,269,209	755,574	0.0179	0.9821	95.53
11.5	40,927,830	534,065	0.0130	0.9870	93.82
12.5	40,393,765	1,878,128	0.0465	0.9535	92.60
13.5	38,515,637		0.0000	1.0000	88.29
14.5	38,501,030	213,866	0.0056	0.9944	88.29
15.5	36,951,736	100,802	0.0027	0.9973	87.80
16.5	24,325,769		0.0000	1.0000	87.56
17.5	24,236,720	212,986	0.0088	0.9912	87.56
18.5	23,894,207	64,565	0.0027	0.9973	86.79
19.5	23,724,949	110,230	0.0046	0.9954	86.56
20.5	23,108,600		0.0000	1.0000	86.16
21.5	23,108,600	401,756	0.0174	0.9826	86.16
22.5	20,086,067		0.0000	1.0000	84.66
23.5	224,415	22,693	0.1011	0.8989	84.66
24.5	159,733	24,459	0.1531	0.8469	76.10
25.5	100,912		0.0000	1.0000	64.44
26.5	57,417		0.0000	1.0000	64.44
27.5	57,417		0.0000	1.0000	64.44
28.5	57,417		0.0000	1.0000	64.44
29.5	57,417		0.0000	1.0000	64.44
30.5	46,437		0.0000	1.0000	64.44
31.5	46,437		0.0000	1.0000	64.44
32.5	572		0.0000	1.0000	64.44
33.5	572		0.0000	1.0000	64.44
34.5	42,703		0.0000	1.0000	64.44
35.5	42,703		0.0000	1.0000	64.44
36.5	42,703		0.0000	1.0000	64.44
37.5	42,703		0.0000	1.0000	64.44
38.5	42,703		0.0000	1.0000	64.44
39.5	42,703		0.0000	1.0000	64.44
40.5					64.44

DUKE ENERGY CAROLINAS
ACCOUNT 345.66 ACCESSORY ELECTRIC EQUIPMENT - SOLAR - GENERAL
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 345.66 ACCESSORY ELECTRIC EQUIPMENT - SOLAR - GENERAL

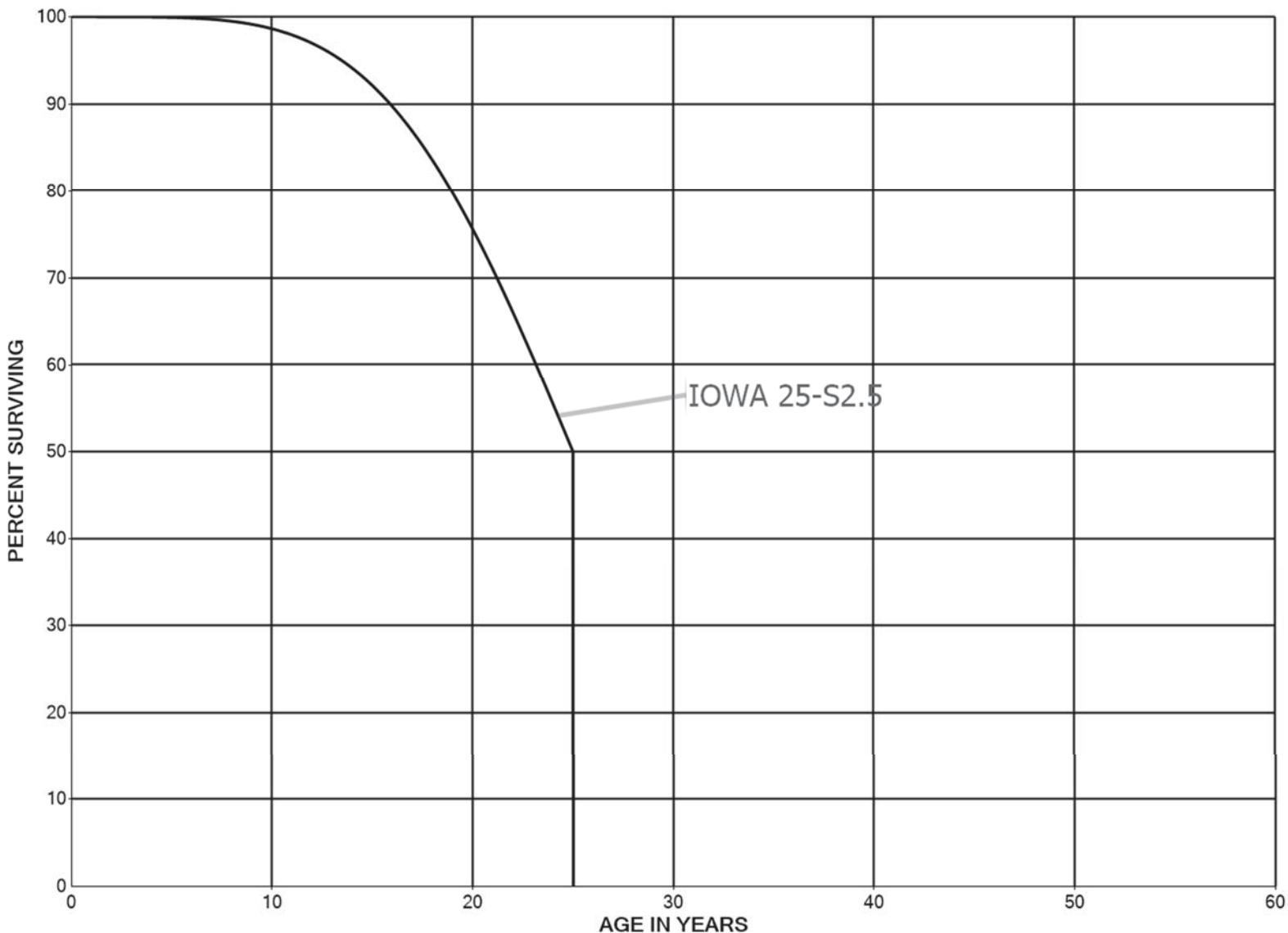
ORIGINAL LIFE TABLE

PLACEMENT BAND 2011-2018

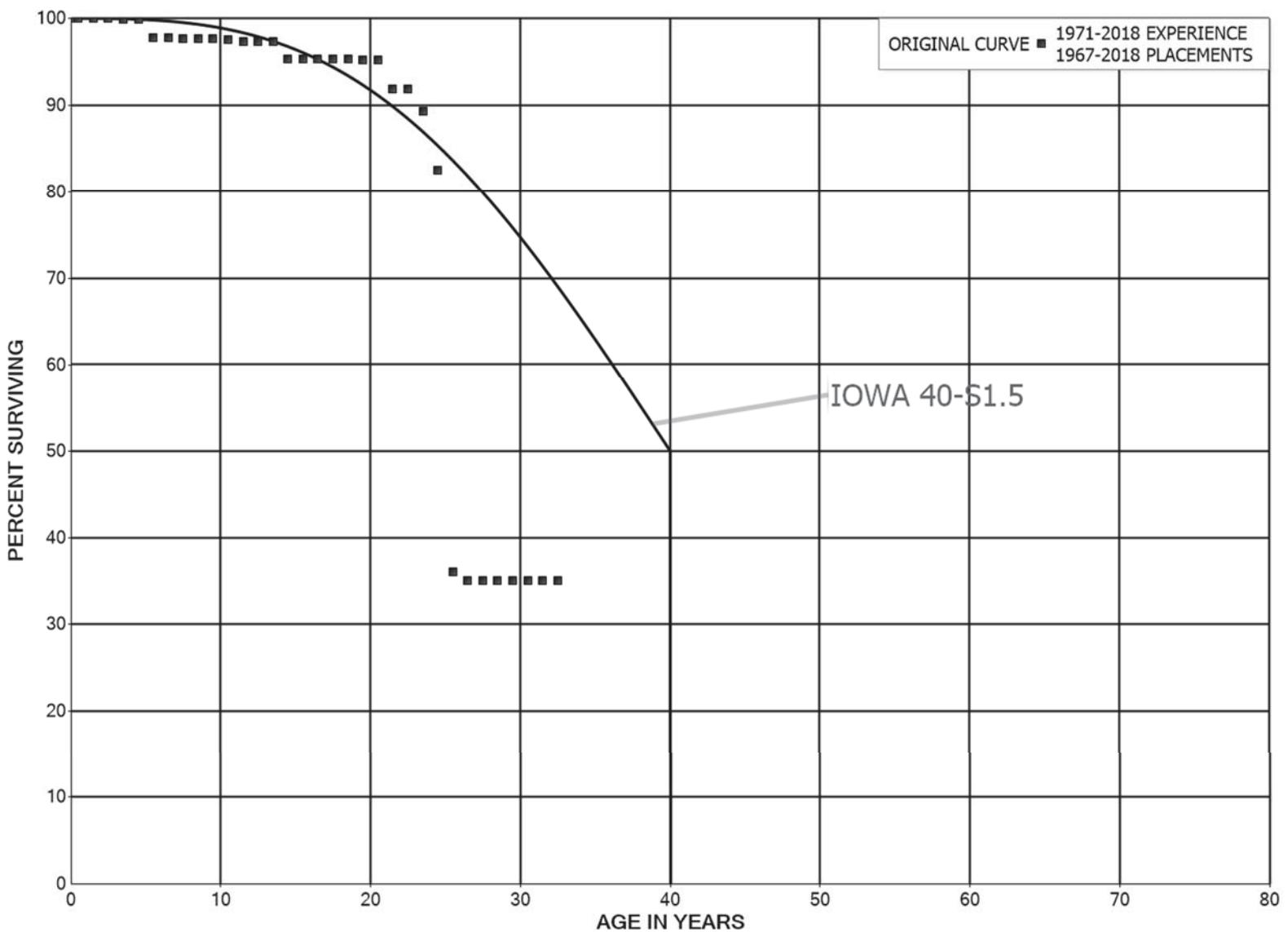
EXPERIENCE BAND 2011-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	8,394,037	0.0000	1.0000	100.00	
0.5	7,500,266	0.0000	1.0000	100.00	
1.5	3,270,455	0.0000	1.0000	100.00	
2.5	988,895	0.0000	1.0000	100.00	
3.5	988,895	0.0000	1.0000	100.00	
4.5	988,895	0.0000	1.0000	100.00	
5.5	988,895	0.0000	1.0000	100.00	
6.5	98,891	0.0000	1.0000	100.00	
7.5					100.00

DUKE ENERGY CAROLINAS
ACCOUNT 345.66 ACCESSORY ELECTRIC EQUIPMENT - SOLAR
SMOOTH SURVIVOR CURVE



DUKE ENERGY CAROLINAS
ACCOUNT 346 MISCELLANEOUS POWER PLANT EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



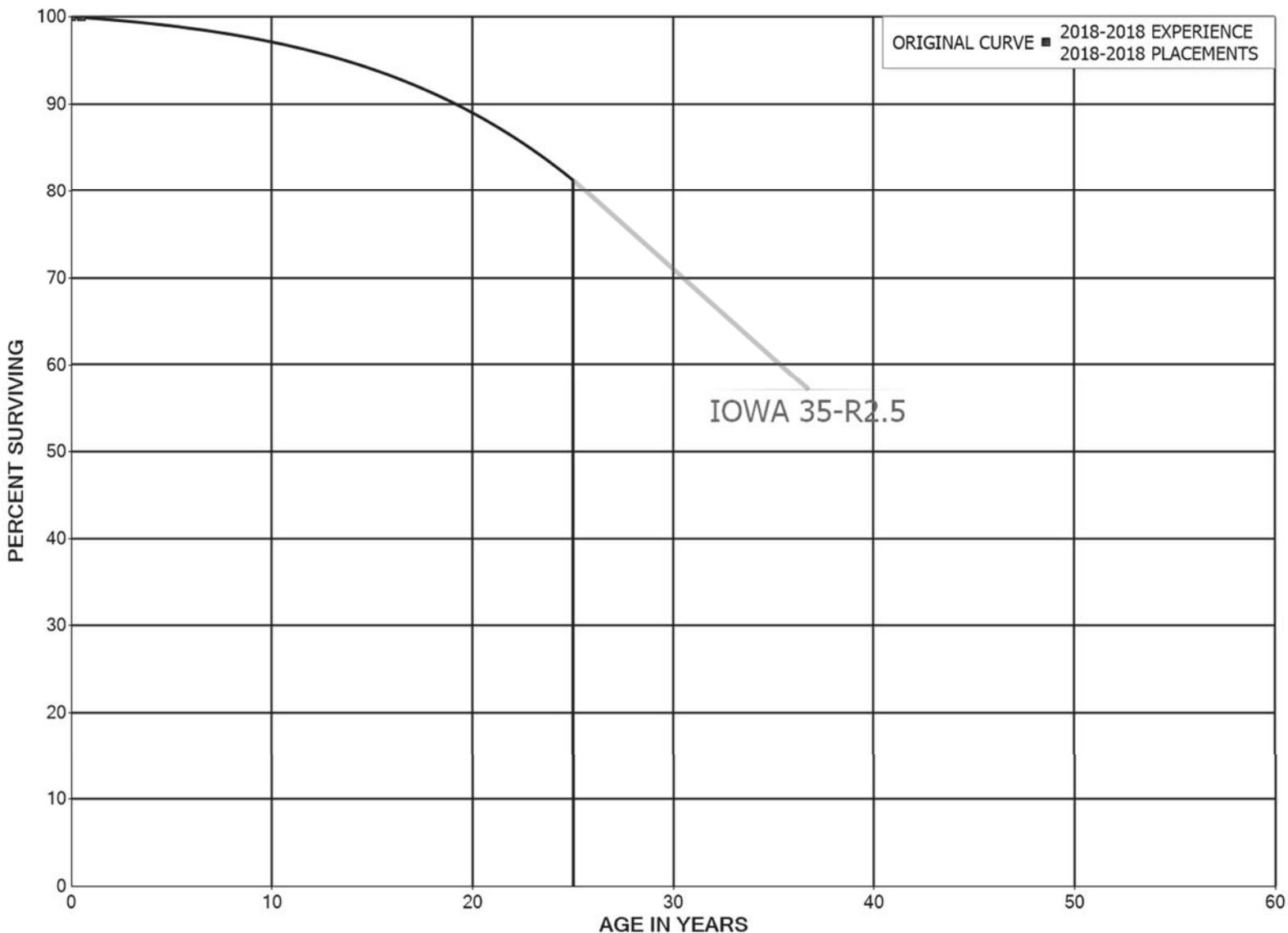
DUKE ENERGY CAROLINAS

ACCOUNT 346 MISCELLANEOUS POWER PLANT EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1967-2018		EXPERIENCE BAND 1971-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	57,411,075	0	0.0000	1.0000	100.00
0.5	49,425,813	1	0.0000	1.0000	100.00
1.5	47,190,538	11	0.0000	1.0000	100.00
2.5	43,027,969	51,214	0.0012	0.9988	100.00
3.5	36,327,612	11,845	0.0003	0.9997	99.88
4.5	19,995,694	420,715	0.0210	0.9790	99.85
5.5	18,189,917	6	0.0000	1.0000	97.75
6.5	13,397,487	11,566	0.0009	0.9991	97.75
7.5	5,917,000	3,891	0.0007	0.9993	97.66
8.5	6,141,195	296	0.0000	1.0000	97.60
9.5	5,769,150	8,251	0.0014	0.9986	97.59
10.5	5,679,307	8,619	0.0015	0.9985	97.45
11.5	5,299,146		0.0000	1.0000	97.31
12.5	5,298,216		0.0000	1.0000	97.31
13.5	5,298,216	111,986	0.0211	0.9789	97.31
14.5	5,098,974	78	0.0000	1.0000	95.25
15.5	4,847,125	96	0.0000	1.0000	95.25
16.5	2,748,528	173	0.0001	0.9999	95.25
17.5	2,703,256	183	0.0001	0.9999	95.24
18.5	2,578,905	219	0.0001	0.9999	95.23
19.5	2,517,507	210	0.0001	0.9999	95.23
20.5	2,433,156	86,325	0.0355	0.9645	95.22
21.5	2,291,202	116	0.0001	0.9999	91.84
22.5	2,275,708	63,143	0.0277	0.9723	91.84
23.5	254,525	19,252	0.0756	0.9244	89.29
24.5	227,375	128,498	0.5651	0.4349	82.53
25.5	73,067	1,810	0.0248	0.9752	35.89
26.5	54,736		0.0000	1.0000	35.00
27.5	51,733		0.0000	1.0000	35.00
28.5	17,651		0.0000	1.0000	35.00
29.5	5,192		0.0000	1.0000	35.00
30.5	5,192		0.0000	1.0000	35.00
31.5	1,144		0.0000	1.0000	35.00
32.5					35.00

DUKE ENERGY CAROLINAS
ACCOUNT 346.66 MISCELLANEOUS POWER PLANT EQUIPMENT - SOLAR
ORIGINAL AND SMOOTH SURVIVOR CURVES



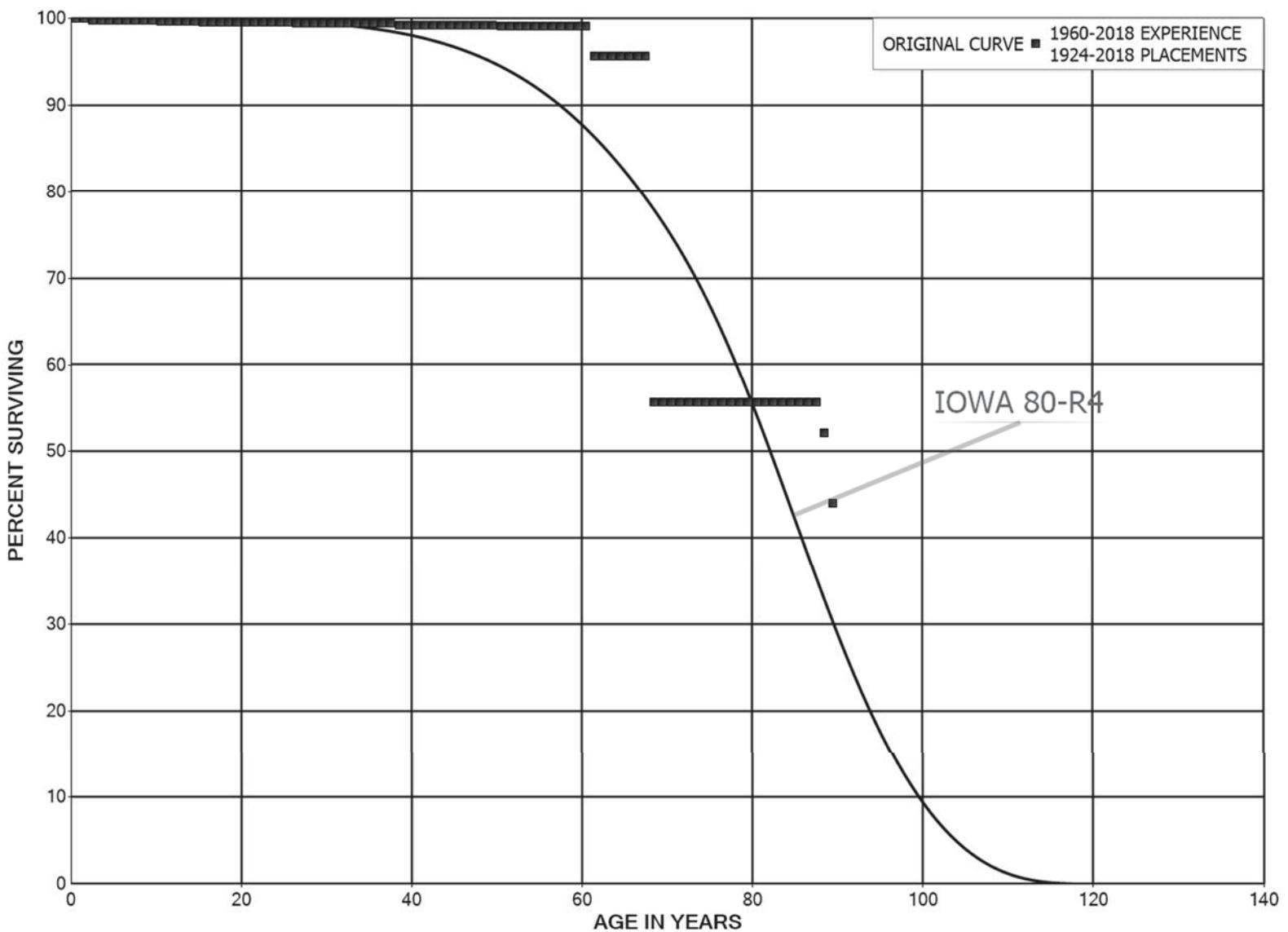
DUKE ENERGY CAROLINAS

ACCOUNT 346.66 MISCELLANEOUS POWER PLANT EQUIPMENT - SOLAR

ORIGINAL LIFE TABLE

PLACEMENT BAND 2018-2018		EXPERIENCE BAND 2018-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	116,806		0.0000	1.0000	100.00
0.5					100.00

DUKE ENERGY CAROLINAS
ACCOUNT 350 RIGHTS OF WAY
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 350 RIGHTS OF WAY

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	161,409,644	75,060	0.0005	0.9995	100.00
0.5	161,173,075	152	0.0000	1.0000	99.95
1.5	159,424,618	351,115	0.0022	0.9978	99.95
2.5	155,869,452	948	0.0000	1.0000	99.73
3.5	155,224,262		0.0000	1.0000	99.73
4.5	152,820,052	11,302	0.0001	0.9999	99.73
5.5	151,637,693	14,492	0.0001	0.9999	99.73
6.5	150,607,708	14,732	0.0001	0.9999	99.72
7.5	145,147,466	7,478	0.0001	0.9999	99.71
8.5	142,197,876	7,482	0.0001	0.9999	99.70
9.5	139,925,182	75,979	0.0005	0.9995	99.70
10.5	133,387,436		0.0000	1.0000	99.64
11.5	131,120,615	4,293	0.0000	1.0000	99.64
12.5	129,723,282	8,592	0.0001	0.9999	99.64
13.5	126,491,671		0.0000	1.0000	99.63
14.5	124,892,133	100,422	0.0008	0.9992	99.63
15.5	123,975,777	2,125	0.0000	1.0000	99.55
16.5	123,198,915	3,750	0.0000	1.0000	99.55
17.5	122,239,887	1,569	0.0000	1.0000	99.55
18.5	119,962,562		0.0000	1.0000	99.55
19.5	119,081,258	47,225	0.0004	0.9996	99.55
20.5	117,964,023	15,601	0.0001	0.9999	99.51
21.5	115,605,969	16,967	0.0001	0.9999	99.49
22.5	113,963,879		0.0000	1.0000	99.48
23.5	110,944,331	8,520	0.0001	0.9999	99.48
24.5	108,571,228	250	0.0000	1.0000	99.47
25.5	107,451,176	43,996	0.0004	0.9996	99.47
26.5	104,805,934	13,204	0.0001	0.9999	99.43
27.5	102,848,784		0.0000	1.0000	99.42
28.5	94,163,406	10,113	0.0001	0.9999	99.42
29.5	91,651,623		0.0000	1.0000	99.41
30.5	91,187,436	13,500	0.0001	0.9999	99.41
31.5	90,145,937	2,100	0.0000	1.0000	99.39
32.5	88,596,797	9,059	0.0001	0.9999	99.39
33.5	85,116,843	7	0.0000	1.0000	99.38
34.5	82,896,789		0.0000	1.0000	99.38
35.5	79,810,823	3,406	0.0000	1.0000	99.38
36.5	74,814,073	1,100	0.0000	1.0000	99.38
37.5	69,756,287	107,276	0.0015	0.9985	99.37
38.5	66,668,018	363	0.0000	1.0000	99.22

DUKE ENERGY CAROLINAS

ACCOUNT 350 RIGHTS OF WAY

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	63,795,901		0.0000	1.0000	99.22
40.5	58,863,996	13,986	0.0002	0.9998	99.22
41.5	57,739,293	16,806	0.0003	0.9997	99.20
42.5	53,310,366	8,985	0.0002	0.9998	99.17
43.5	46,549,203	8	0.0000	1.0000	99.15
44.5	38,966,870	445	0.0000	1.0000	99.15
45.5	35,808,489	20	0.0000	1.0000	99.15
46.5	26,515,644	28	0.0000	1.0000	99.15
47.5	24,165,805	997	0.0000	1.0000	99.15
48.5	21,166,365		0.0000	1.0000	99.15
49.5	18,878,341	6,428	0.0003	0.9997	99.15
50.5	15,564,611		0.0000	1.0000	99.11
51.5	14,104,469	4,238	0.0003	0.9997	99.11
52.5	12,520,730		0.0000	1.0000	99.08
53.5	10,920,261		0.0000	1.0000	99.08
54.5	9,681,789		0.0000	1.0000	99.08
55.5	8,375,066		0.0000	1.0000	99.08
56.5	7,834,659	428	0.0001	0.9999	99.08
57.5	6,856,087		0.0000	1.0000	99.08
58.5	58,432		0.0000	1.0000	99.08
59.5	58,432		0.0000	1.0000	99.08
60.5	58,432	2,074	0.0355	0.9645	99.08
61.5	58,387		0.0000	1.0000	95.56
62.5	49,410		0.0000	1.0000	95.56
63.5	55,016		0.0000	1.0000	95.56
64.5	54,055		0.0000	1.0000	95.56
65.5	54,055		0.0000	1.0000	95.56
66.5	52,917		0.0000	1.0000	95.56
67.5	56,788	23,717	0.4176	0.5824	95.56
68.5	33,071		0.0000	1.0000	55.65
69.5	33,071		0.0000	1.0000	55.65
70.5	33,071	2	0.0001	0.9999	55.65
71.5	32,868		0.0000	1.0000	55.65
72.5	32,868		0.0000	1.0000	55.65
73.5	32,010		0.0000	1.0000	55.65
74.5	27,772		0.0000	1.0000	55.65
75.5	32,532		0.0000	1.0000	55.65
76.5	29,370		0.0000	1.0000	55.65
77.5	14,290		0.0000	1.0000	55.65
78.5	14,290		0.0000	1.0000	55.65

DUKE ENERGY CAROLINAS

ACCOUNT 350 RIGHTS OF WAY

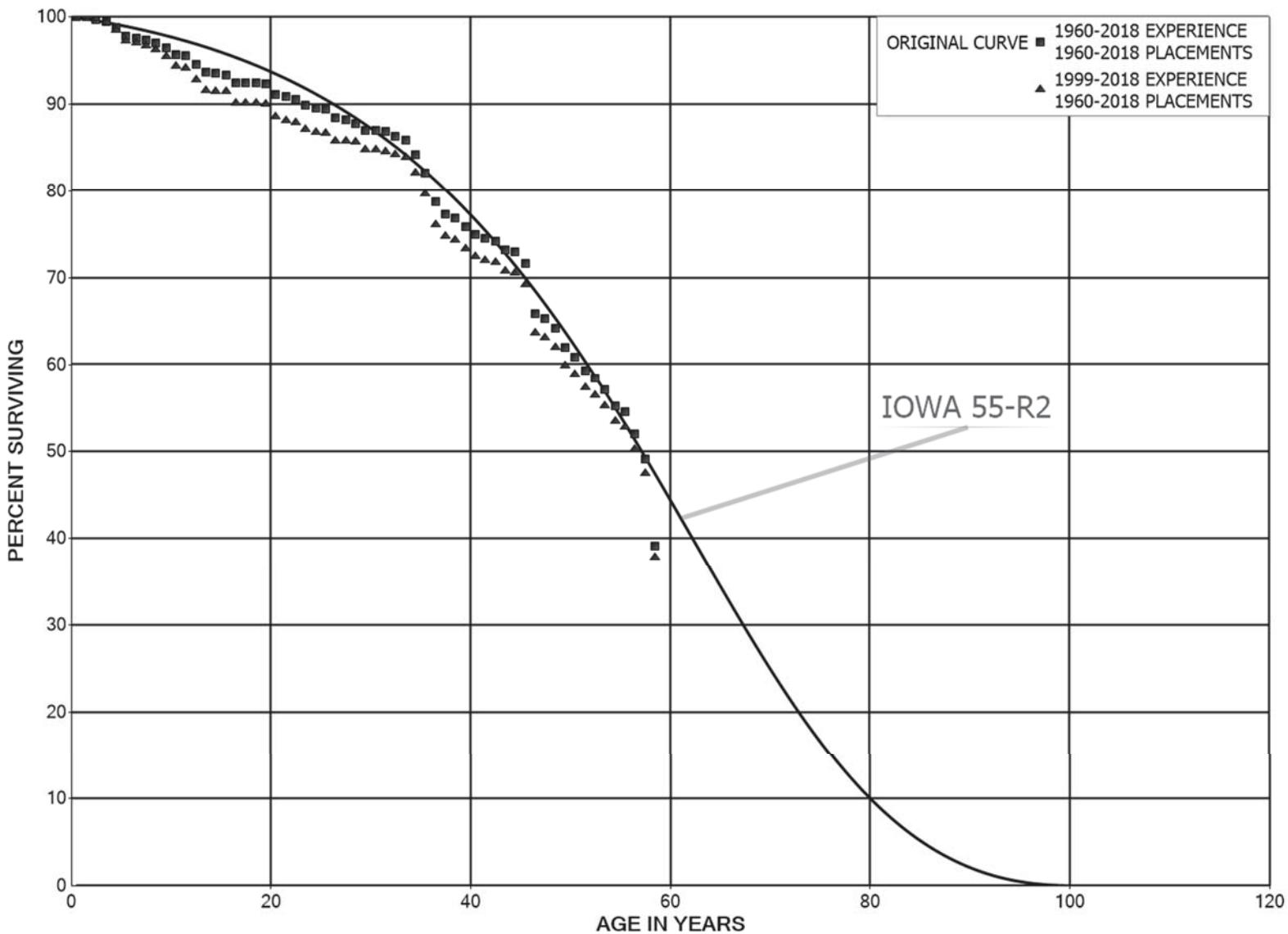
ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018

EXPERIENCE BAND 1960-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	14,170		0.0000	1.0000	55.65
80.5	14,170		0.0000	1.0000	55.65
81.5	14,170		0.0000	1.0000	55.65
82.5	14,156		0.0000	1.0000	55.65
83.5	13,493		0.0000	1.0000	55.65
84.5	8,586		0.0000	1.0000	55.65
85.5	7,867		0.0000	1.0000	55.65
86.5	6,500		0.0000	1.0000	55.65
87.5	6,500	415	0.0638	0.9362	55.65
88.5	6,085	948	0.1558	0.8442	52.09
89.5					43.98

DUKE ENERGY CAROLINAS
ACCOUNT 352 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	108,127,176	11,380	0.0001	0.9999	100.00
0.5	103,559,505	46,465	0.0004	0.9996	99.99
1.5	80,692,573	236,263	0.0029	0.9971	99.94
2.5	74,934,014	232,610	0.0031	0.9969	99.65
3.5	70,331,858	475,769	0.0068	0.9932	99.34
4.5	62,758,392	617,315	0.0098	0.9902	98.67
5.5	57,803,274	97,057	0.0017	0.9983	97.70
6.5	52,778,408	149,081	0.0028	0.9972	97.54
7.5	50,552,794	146,479	0.0029	0.9971	97.26
8.5	42,458,781	260,700	0.0061	0.9939	96.98
9.5	41,374,512	320,208	0.0077	0.9923	96.38
10.5	39,146,669	63,512	0.0016	0.9984	95.64
11.5	37,031,796	376,757	0.0102	0.9898	95.48
12.5	34,019,396	314,528	0.0092	0.9908	94.51
13.5	28,855,179	30,735	0.0011	0.9989	93.64
14.5	28,181,690	65,245	0.0023	0.9977	93.54
15.5	27,679,956	262,742	0.0095	0.9905	93.32
16.5	25,325,062	9,914	0.0004	0.9996	92.43
17.5	23,377,240	7,871	0.0003	0.9997	92.40
18.5	21,457,110	17,769	0.0008	0.9992	92.37
19.5	21,310,589	273,362	0.0128	0.9872	92.29
20.5	20,866,559	72,314	0.0035	0.9965	91.11
21.5	20,175,998	66,349	0.0033	0.9967	90.79
22.5	19,931,578	134,088	0.0067	0.9933	90.49
23.5	18,110,943	71,605	0.0040	0.9960	89.88
24.5	18,036,422	30,687	0.0017	0.9983	89.53
25.5	16,759,978	190,122	0.0113	0.9887	89.38
26.5	16,342,423	42,264	0.0026	0.9974	88.36
27.5	15,827,344	71,053	0.0045	0.9955	88.13
28.5	14,806,017	125,342	0.0085	0.9915	87.74
29.5	14,011,347	16,771	0.0012	0.9988	87.00
30.5	11,084,031	13,133	0.0012	0.9988	86.89
31.5	11,025,395	68,143	0.0062	0.9938	86.79
32.5	10,770,143	54,372	0.0050	0.9950	86.25
33.5	10,580,281	199,606	0.0189	0.9811	85.82
34.5	9,683,063	243,132	0.0251	0.9749	84.20
35.5	9,241,476	377,605	0.0409	0.9591	82.08
36.5	8,647,765	161,923	0.0187	0.9813	78.73
37.5	7,667,260	42,425	0.0055	0.9945	77.26
38.5	7,490,868	101,245	0.0135	0.9865	76.83

DUKE ENERGY CAROLINAS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	6,858,622	80,220	0.0117	0.9883	75.79
40.5	6,303,765	34,411	0.0055	0.9945	74.90
41.5	5,559,049	20,409	0.0037	0.9963	74.49
42.5	5,458,017	74,589	0.0137	0.9863	74.22
43.5	4,576,763	16,912	0.0037	0.9963	73.21
44.5	4,468,531	84,086	0.0188	0.9812	72.94
45.5	3,744,369	297,328	0.0794	0.9206	71.56
46.5	3,091,638	29,371	0.0095	0.9905	65.88
47.5	2,873,126	48,561	0.0169	0.9831	65.25
48.5	2,730,227	94,264	0.0345	0.9655	64.15
49.5	2,168,929	36,820	0.0170	0.9830	61.94
50.5	1,988,950	51,867	0.0261	0.9739	60.89
51.5	1,708,196	25,625	0.0150	0.9850	59.30
52.5	1,493,466	33,777	0.0226	0.9774	58.41
53.5	1,320,946	43,501	0.0329	0.9671	57.09
54.5	1,267,721	15,730	0.0124	0.9876	55.21
55.5	1,054,022	50,155	0.0476	0.9524	54.52
56.5	946,887	52,514	0.0555	0.9445	51.93
57.5	751,568	152,901	0.2034	0.7966	49.05
58.5					39.07

DUKE ENERGY CAROLINAS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	87,819,148	707	0.0000	1.0000	100.00
0.5	83,568,909	43,408	0.0005	0.9995	100.00
1.5	62,477,897	168,446	0.0027	0.9973	99.95
2.5	57,324,629	230,015	0.0040	0.9960	99.68
3.5	54,579,412	463,496	0.0085	0.9915	99.28
4.5	47,248,994	599,504	0.0127	0.9873	98.43
5.5	43,343,304	96,908	0.0022	0.9978	97.19
6.5	38,558,874	149,048	0.0039	0.9961	96.97
7.5	34,155,167	143,257	0.0042	0.9958	96.59
8.5	27,013,016	211,173	0.0078	0.9922	96.19
9.5	26,741,899	320,208	0.0120	0.9880	95.44
10.5	27,415,806	61,578	0.0022	0.9978	94.29
11.5	25,339,430	368,017	0.0145	0.9855	94.08
12.5	22,526,531	288,508	0.0128	0.9872	92.72
13.5	17,549,418	27,756	0.0016	0.9984	91.53
14.5	17,867,686	2,923	0.0002	0.9998	91.38
15.5	17,931,724	250,556	0.0140	0.9860	91.37
16.5	15,877,719	1,008	0.0001	0.9999	90.09
17.5	14,842,694	2,990	0.0002	0.9998	90.09
18.5	13,183,823	14,895	0.0011	0.9989	90.07
19.5	13,812,706	223,497	0.0162	0.9838	89.97
20.5	13,990,098	70,176	0.0050	0.9950	88.51
21.5	14,102,805	37,549	0.0027	0.9973	88.07
22.5	13,998,751	118,825	0.0085	0.9915	87.83
23.5	13,090,197	58,729	0.0045	0.9955	87.09
24.5	13,135,937	18,492	0.0014	0.9986	86.70
25.5	12,571,213	116,117	0.0092	0.9908	86.57
26.5	12,704,559	6,823	0.0005	0.9995	85.77
27.5	12,641,118	23,300	0.0018	0.9982	85.73
28.5	11,859,681	110,451	0.0093	0.9907	85.57
29.5	11,662,052	12,213	0.0010	0.9990	84.77
30.5	8,937,269	13,133	0.0015	0.9985	84.68
31.5	9,183,329	46,579	0.0051	0.9949	84.56
32.5	9,149,840	27,715	0.0030	0.9970	84.13
33.5	9,138,390	199,606	0.0218	0.9782	83.88
34.5	8,294,178	241,184	0.0291	0.9709	82.04
35.5	8,081,385	366,810	0.0454	0.9546	79.66
36.5	7,562,813	135,079	0.0179	0.9821	76.04
37.5	6,810,367	39,892	0.0059	0.9941	74.68
38.5	7,490,868	101,245	0.0135	0.9865	74.25

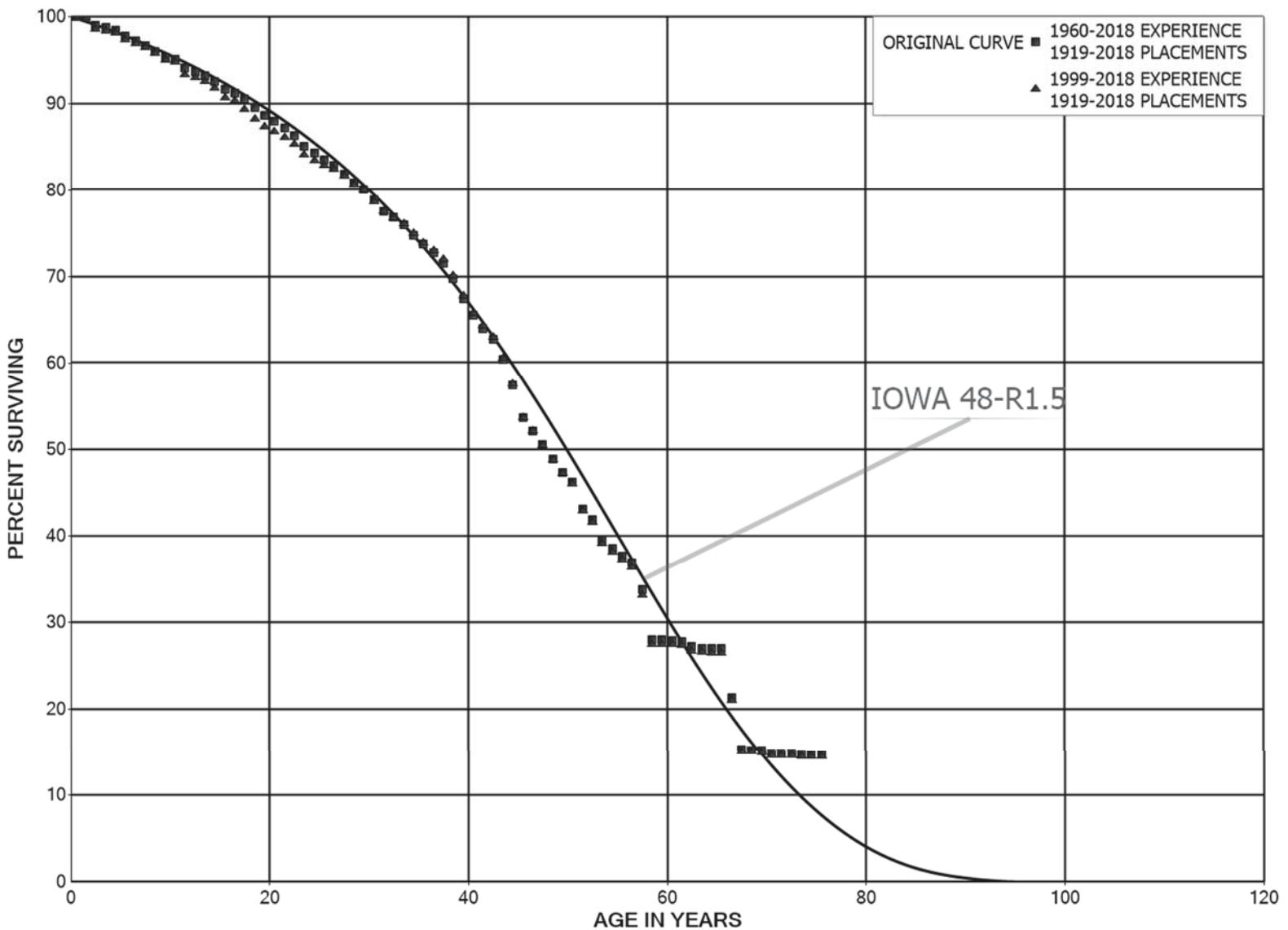
DUKE ENERGY CAROLINAS

ACCOUNT 352 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	6,858,622	80,220	0.0117	0.9883	73.24
40.5	6,303,765	34,411	0.0055	0.9945	72.39
41.5	5,559,049	20,409	0.0037	0.9963	71.99
42.5	5,458,017	74,589	0.0137	0.9863	71.73
43.5	4,576,763	16,912	0.0037	0.9963	70.75
44.5	4,468,531	84,086	0.0188	0.9812	70.49
45.5	3,744,369	297,328	0.0794	0.9206	69.16
46.5	3,091,638	29,371	0.0095	0.9905	63.67
47.5	2,873,126	48,561	0.0169	0.9831	63.06
48.5	2,730,227	94,264	0.0345	0.9655	62.00
49.5	2,168,929	36,820	0.0170	0.9830	59.86
50.5	1,988,950	51,867	0.0261	0.9739	58.84
51.5	1,708,196	25,625	0.0150	0.9850	57.31
52.5	1,493,466	33,777	0.0226	0.9774	56.45
53.5	1,320,946	43,501	0.0329	0.9671	55.17
54.5	1,267,721	15,730	0.0124	0.9876	53.35
55.5	1,054,022	50,155	0.0476	0.9524	52.69
56.5	946,887	52,514	0.0555	0.9445	50.18
57.5	751,568	152,901	0.2034	0.7966	47.40
58.5					37.76

DUKE ENERGY CAROLINAS
ACCOUNT 353 STATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	2,038,829,447	331,387	0.0002	0.9998	100.00
0.5	1,958,115,143	2,881,049	0.0015	0.9985	99.98
1.5	1,763,621,046	15,286,724	0.0087	0.9913	99.84
2.5	1,690,162,449	4,282,160	0.0025	0.9975	98.97
3.5	1,586,815,117	5,214,340	0.0033	0.9967	98.72
4.5	1,517,140,789	10,648,377	0.0070	0.9930	98.40
5.5	1,434,208,130	7,311,980	0.0051	0.9949	97.71
6.5	1,339,577,736	7,635,097	0.0057	0.9943	97.21
7.5	1,267,986,140	9,645,953	0.0076	0.9924	96.65
8.5	1,192,886,979	7,461,300	0.0063	0.9937	95.92
9.5	1,155,581,346	3,673,418	0.0032	0.9968	95.32
10.5	1,113,568,671	11,358,581	0.0102	0.9898	95.02
11.5	1,047,866,708	5,130,917	0.0049	0.9951	94.05
12.5	1,005,122,354	4,892,767	0.0049	0.9951	93.59
13.5	960,982,603	6,570,038	0.0068	0.9932	93.13
14.5	908,925,256	8,243,694	0.0091	0.9909	92.49
15.5	865,697,424	4,606,748	0.0053	0.9947	91.65
16.5	819,006,222	6,429,120	0.0078	0.9922	91.17
17.5	779,708,908	8,056,046	0.0103	0.9897	90.45
18.5	741,338,894	7,374,808	0.0099	0.9901	89.52
19.5	722,637,907	5,928,729	0.0082	0.9918	88.63
20.5	702,990,433	6,079,758	0.0086	0.9914	87.90
21.5	685,505,346	6,632,861	0.0097	0.9903	87.14
22.5	667,804,475	9,194,825	0.0138	0.9862	86.30
23.5	623,119,048	5,969,737	0.0096	0.9904	85.11
24.5	597,941,072	5,610,190	0.0094	0.9906	84.29
25.5	558,302,566	4,584,064	0.0082	0.9918	83.50
26.5	534,947,637	6,327,109	0.0118	0.9882	82.82
27.5	477,010,304	5,571,674	0.0117	0.9883	81.84
28.5	445,361,562	4,585,788	0.0103	0.9897	80.88
29.5	421,098,713	6,377,264	0.0151	0.9849	80.05
30.5	406,938,717	6,707,275	0.0165	0.9835	78.83
31.5	391,561,322	3,644,869	0.0093	0.9907	77.54
32.5	376,683,755	4,477,902	0.0119	0.9881	76.81
33.5	361,375,501	5,492,865	0.0152	0.9848	75.90
34.5	334,687,644	4,621,971	0.0138	0.9862	74.75
35.5	303,430,430	4,267,682	0.0141	0.9859	73.71
36.5	284,734,901	4,439,063	0.0156	0.9844	72.68
37.5	255,610,507	6,522,233	0.0255	0.9745	71.54
38.5	243,495,506	7,987,282	0.0328	0.9672	69.72

DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	225,849,305	6,443,538	0.0285	0.9715	67.43
40.5	209,076,914	4,832,496	0.0231	0.9769	65.51
41.5	195,272,501	3,888,523	0.0199	0.9801	63.99
42.5	181,791,116	6,835,850	0.0376	0.9624	62.72
43.5	149,248,620	7,365,860	0.0494	0.9506	60.36
44.5	124,607,167	8,174,294	0.0656	0.9344	57.38
45.5	96,870,126	2,775,141	0.0286	0.9714	53.62
46.5	79,213,248	2,449,777	0.0309	0.9691	52.08
47.5	66,489,225	2,130,686	0.0320	0.9680	50.47
48.5	60,812,901	1,962,764	0.0323	0.9677	48.85
49.5	48,258,237	1,172,072	0.0243	0.9757	47.28
50.5	43,591,352	2,872,041	0.0659	0.9341	46.13
51.5	34,993,239	1,059,991	0.0303	0.9697	43.09
52.5	30,516,934	1,676,193	0.0549	0.9451	41.78
53.5	27,104,139	698,947	0.0258	0.9742	39.49
54.5	24,020,126	535,476	0.0223	0.9777	38.47
55.5	21,920,642	462,533	0.0211	0.9789	37.61
56.5	20,245,526	1,693,562	0.0837	0.9163	36.82
57.5	16,862,476	2,921,473	0.1733	0.8267	33.74
58.5	2,431,744		0.0000	1.0000	27.89
59.5	2,431,744	1,103	0.0005	0.9995	27.89
60.5	2,430,641	9,045	0.0037	0.9963	27.88
61.5	2,404,186	53,916	0.0224	0.9776	27.78
62.5	2,337,381	13,901	0.0059	0.9941	27.15
63.5	2,229,500	6,682	0.0030	0.9970	26.99
64.5	2,119,972	1,011	0.0005	0.9995	26.91
65.5	2,004,964	415,596	0.2073	0.7927	26.90
66.5	1,575,767	449,891	0.2855	0.7145	21.32
67.5	887,629	1,266	0.0014	0.9986	15.24
68.5	868,929	4,714	0.0054	0.9946	15.21
69.5	855,065	17,544	0.0205	0.9795	15.13
70.5	837,521		0.0000	1.0000	14.82
71.5	837,521		0.0000	1.0000	14.82
72.5	837,521	8,383	0.0100	0.9900	14.82
73.5	829,138	235	0.0003	0.9997	14.67
74.5	828,534	1,393	0.0017	0.9983	14.67
75.5	832,305	4,938	0.0059	0.9941	14.64
76.5	446,404	6,305	0.0141	0.9859	14.56
77.5	6,358	0	0.0001	0.9999	14.35
78.5	6,295		0.0000	1.0000	14.35

DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	6,295		0.0000	1.0000	14.35
80.5	6,295		0.0000	1.0000	14.35
81.5	6,295		0.0000	1.0000	14.35
82.5	6,295		0.0000	1.0000	14.35
83.5	6,295		0.0000	1.0000	14.35
84.5	6,295	1	0.0002	0.9998	14.35
85.5	6,170		0.0000	1.0000	14.35
86.5	6,170		0.0000	1.0000	14.35
87.5	6,170		0.0000	1.0000	14.35
88.5	6,170	6	0.0010	0.9990	14.35
89.5	5,517		0.0000	1.0000	14.33
90.5	5,517		0.0000	1.0000	14.33
91.5	5,517		0.0000	1.0000	14.33
92.5	5,517		0.0000	1.0000	14.33
93.5	5,517		0.0000	1.0000	14.33
94.5	5,517		0.0000	1.0000	14.33
95.5	5,517		0.0000	1.0000	14.33
96.5	5,517		0.0000	1.0000	14.33
97.5	5,517		0.0000	1.0000	14.33
98.5	5,517	434	0.0787	0.9213	14.33
99.5					13.20

DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,251,333,255	234,290	0.0002	0.9998	100.00
0.5	1,180,527,986	1,232,891	0.0010	0.9990	99.98
1.5	990,757,808	13,110,368	0.0132	0.9868	99.88
2.5	923,478,920	2,240,710	0.0024	0.9976	98.56
3.5	860,275,440	2,007,816	0.0023	0.9977	98.32
4.5	810,298,970	6,787,163	0.0084	0.9916	98.09
5.5	774,037,158	3,159,275	0.0041	0.9959	97.27
6.5	703,855,362	3,602,566	0.0051	0.9949	96.87
7.5	686,609,657	4,932,192	0.0072	0.9928	96.37
8.5	645,258,109	4,580,251	0.0071	0.9929	95.68
9.5	631,962,871	2,083,212	0.0033	0.9967	95.00
10.5	604,849,177	8,818,147	0.0146	0.9854	94.69
11.5	551,449,172	2,038,571	0.0037	0.9963	93.31
12.5	529,714,950	2,796,951	0.0053	0.9947	92.96
13.5	504,185,290	3,947,746	0.0078	0.9922	92.47
14.5	485,130,220	6,141,680	0.0127	0.9873	91.75
15.5	478,532,751	1,711,112	0.0036	0.9964	90.59
16.5	452,343,931	5,128,388	0.0113	0.9887	90.26
17.5	444,072,869	5,164,622	0.0116	0.9884	89.24
18.5	420,342,182	4,124,774	0.0098	0.9902	88.20
19.5	419,718,521	2,946,489	0.0070	0.9930	87.34
20.5	419,273,964	3,197,468	0.0076	0.9924	86.72
21.5	420,851,527	3,870,872	0.0092	0.9908	86.06
22.5	419,800,430	5,729,121	0.0136	0.9864	85.27
23.5	415,298,726	3,512,579	0.0085	0.9915	84.11
24.5	419,755,382	2,585,671	0.0062	0.9938	83.39
25.5	416,424,337	2,541,485	0.0061	0.9939	82.88
26.5	416,121,847	4,110,785	0.0099	0.9901	82.37
27.5	379,856,352	4,287,184	0.0113	0.9887	81.56
28.5	356,366,233	3,127,901	0.0088	0.9912	80.64
29.5	351,620,964	5,629,338	0.0160	0.9840	79.93
30.5	343,319,309	5,226,113	0.0152	0.9848	78.65
31.5	338,735,358	3,189,874	0.0094	0.9906	77.46
32.5	330,454,482	2,793,031	0.0085	0.9915	76.73
33.5	321,078,710	4,625,173	0.0144	0.9856	76.08
34.5	298,910,133	4,364,615	0.0146	0.9854	74.98
35.5	271,122,026	3,300,877	0.0122	0.9878	73.89
36.5	255,022,444	3,800,076	0.0149	0.9851	72.99
37.5	229,430,942	5,942,303	0.0259	0.9741	71.90
38.5	241,224,442	7,987,282	0.0331	0.9669	70.04

DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	223,578,241	6,443,538	0.0288	0.9712	67.72
40.5	206,806,429	4,832,496	0.0234	0.9766	65.77
41.5	192,906,592	3,888,523	0.0202	0.9798	64.23
42.5	179,447,861	6,835,850	0.0381	0.9619	62.94
43.5	146,914,546	7,365,860	0.0501	0.9499	60.54
44.5	122,399,843	8,174,294	0.0668	0.9332	57.50
45.5	94,777,979	2,775,141	0.0293	0.9707	53.66
46.5	77,134,782	2,449,777	0.0318	0.9682	52.09
47.5	64,732,881	2,130,686	0.0329	0.9671	50.44
48.5	59,077,770	1,962,764	0.0332	0.9668	48.78
49.5	46,532,434	1,172,072	0.0252	0.9748	47.16
50.5	41,879,514	2,872,041	0.0686	0.9314	45.97
51.5	33,281,401	1,059,991	0.0318	0.9682	42.82
52.5	28,805,096	1,676,193	0.0582	0.9418	41.45
53.5	25,334,537	641,183	0.0253	0.9747	39.04
54.5	22,308,660	535,476	0.0240	0.9760	38.05
55.5	20,210,136	462,533	0.0229	0.9771	37.14
56.5	19,367,312	1,693,562	0.0874	0.9126	36.29
57.5	16,860,807	2,921,473	0.1733	0.8267	33.12
58.5	2,430,138		0.0000	1.0000	27.38
59.5	2,430,138	1,103	0.0005	0.9995	27.38
60.5	2,429,035	9,045	0.0037	0.9963	27.37
61.5	2,402,580	53,916	0.0224	0.9776	27.26
62.5	2,335,775	13,901	0.0060	0.9940	26.65
63.5	2,227,894	6,682	0.0030	0.9970	26.49
64.5	2,118,366	1,011	0.0005	0.9995	26.41
65.5	2,004,311	415,596	0.2074	0.7926	26.40
66.5	1,575,114	449,891	0.2856	0.7144	20.93
67.5	886,976	1,266	0.0014	0.9986	14.95
68.5	868,276	4,714	0.0054	0.9946	14.93
69.5	855,065	17,544	0.0205	0.9795	14.85
70.5	837,521		0.0000	1.0000	14.54
71.5	837,521		0.0000	1.0000	14.54
72.5	837,521	8,383	0.0100	0.9900	14.54
73.5	829,138	235	0.0003	0.9997	14.40
74.5	828,534	1,393	0.0017	0.9983	14.39
75.5	826,788	4,938	0.0060	0.9940	14.37
76.5	440,887	6,305	0.0143	0.9857	14.28
77.5	841	0	0.0006	0.9994	14.08
78.5	778		0.0000	1.0000	14.07

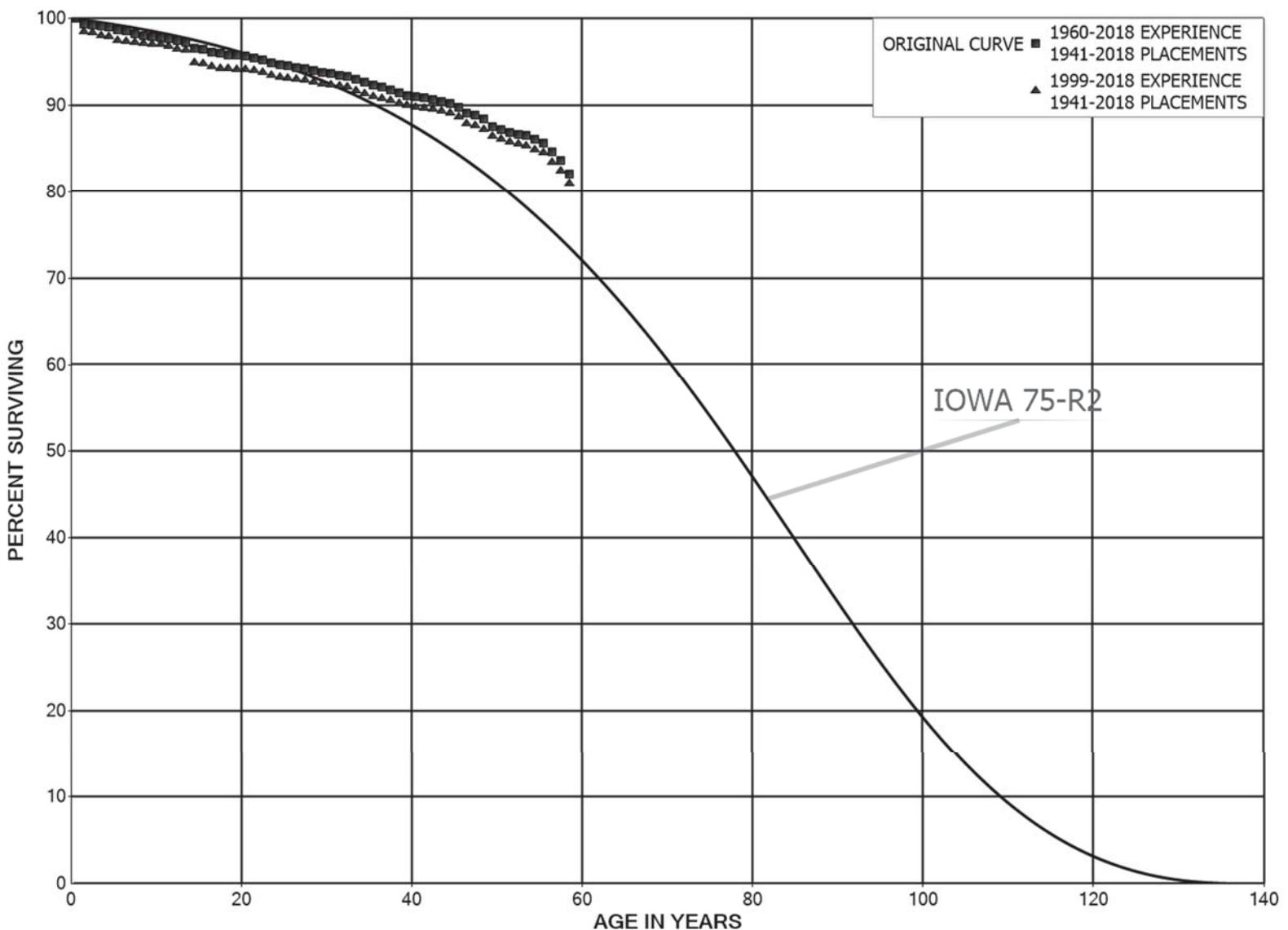
DUKE ENERGY CAROLINAS

ACCOUNT 353 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	6,295		0.0000	1.0000	14.07
80.5	6,295		0.0000	1.0000	14.07
81.5	6,295		0.0000	1.0000	14.07
82.5	6,295		0.0000	1.0000	14.07
83.5	6,295		0.0000	1.0000	14.07
84.5	6,295	1	0.0002	0.9998	14.07
85.5	6,170		0.0000	1.0000	14.07
86.5	6,170		0.0000	1.0000	14.07
87.5	6,170		0.0000	1.0000	14.07
88.5	6,170	6	0.0010	0.9990	14.07
89.5	5,517		0.0000	1.0000	14.05
90.5	5,517		0.0000	1.0000	14.05
91.5	5,517		0.0000	1.0000	14.05
92.5	5,517		0.0000	1.0000	14.05
93.5	5,517		0.0000	1.0000	14.05
94.5	5,517		0.0000	1.0000	14.05
95.5	5,517		0.0000	1.0000	14.05
96.5	5,517		0.0000	1.0000	14.05
97.5	5,517		0.0000	1.0000	14.05
98.5	5,517	434	0.0787	0.9213	14.05
99.5					12.95

DUKE ENERGY CAROLINAS
ACCOUNT 354 TOWERS AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1941-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	609,140,654	92,210	0.0002	0.9998	100.00
0.5	593,108,613	4,074,311	0.0069	0.9931	99.98
1.5	570,549,285	426,266	0.0007	0.9993	99.30
2.5	555,156,914	1,181,475	0.0021	0.9979	99.22
3.5	537,443,161	387,017	0.0007	0.9993	99.01
4.5	524,242,329	1,446,794	0.0028	0.9972	98.94
5.5	490,764,428	933,135	0.0019	0.9981	98.67
6.5	445,406,975	1,587,652	0.0036	0.9964	98.48
7.5	436,454,402	609,184	0.0014	0.9986	98.13
8.5	408,154,712	676,535	0.0017	0.9983	97.99
9.5	403,348,415	323,055	0.0008	0.9992	97.83
10.5	397,798,848	467,409	0.0012	0.9988	97.75
11.5	378,456,507	1,056,453	0.0028	0.9972	97.64
12.5	362,893,522	738,403	0.0020	0.9980	97.36
13.5	357,978,359	2,316,874	0.0065	0.9935	97.17
14.5	350,265,437	594,670	0.0017	0.9983	96.54
15.5	344,694,011	959,193	0.0028	0.9972	96.37
16.5	338,277,941	732,099	0.0022	0.9978	96.11
17.5	333,388,904	532,835	0.0016	0.9984	95.90
18.5	330,809,475	250,360	0.0008	0.9992	95.74
19.5	328,336,855	327,636	0.0010	0.9990	95.67
20.5	325,524,029	543,558	0.0017	0.9983	95.58
21.5	320,328,775	738,082	0.0023	0.9977	95.42
22.5	313,194,401	1,188,312	0.0038	0.9962	95.20
23.5	299,347,393	555,977	0.0019	0.9981	94.84
24.5	287,275,904	470,848	0.0016	0.9984	94.66
25.5	282,779,663	542,203	0.0019	0.9981	94.50
26.5	281,586,980	355,193	0.0013	0.9987	94.32
27.5	266,504,404	854,230	0.0032	0.9968	94.20
28.5	252,163,608	391,901	0.0016	0.9984	93.90
29.5	240,990,994	372,081	0.0015	0.9985	93.76
30.5	236,214,317	492,720	0.0021	0.9979	93.61
31.5	232,466,340	246,945	0.0011	0.9989	93.42
32.5	224,506,662	856,304	0.0038	0.9962	93.32
33.5	216,718,144	730,873	0.0034	0.9966	92.96
34.5	206,771,898	794,060	0.0038	0.9962	92.65
35.5	198,857,448	512,533	0.0026	0.9974	92.29
36.5	183,617,565	587,094	0.0032	0.9968	92.05
37.5	172,057,976	745,127	0.0043	0.9957	91.76
38.5	166,331,534	481,556	0.0029	0.9971	91.36

DUKE ENERGY CAROLINAS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1941-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	160,999,031	261,559	0.0016	0.9984	91.10
40.5	155,469,927	246,646	0.0016	0.9984	90.95
41.5	142,123,073	245,124	0.0017	0.9983	90.81
42.5	137,404,962	308,371	0.0022	0.9978	90.65
43.5	127,279,127	317,514	0.0025	0.9975	90.45
44.5	90,912,863	447,709	0.0049	0.9951	90.22
45.5	78,898,395	648,202	0.0082	0.9918	89.78
46.5	51,264,712	117,542	0.0023	0.9977	89.04
47.5	47,965,617	252,037	0.0053	0.9947	88.83
48.5	40,473,699	371,670	0.0092	0.9908	88.37
49.5	31,571,762	121,367	0.0038	0.9962	87.56
50.5	27,291,653	121,198	0.0044	0.9956	87.22
51.5	24,678,814	47,068	0.0019	0.9981	86.83
52.5	22,307,334	53,886	0.0024	0.9976	86.67
53.5	19,937,433	100,071	0.0050	0.9950	86.46
54.5	17,727,181	83,857	0.0047	0.9953	86.02
55.5	15,140,689	185,771	0.0123	0.9877	85.62
56.5	14,429,697	166,941	0.0116	0.9884	84.57
57.5	13,614,893	243,388	0.0179	0.9821	83.59
58.5	317,254		0.0000	1.0000	82.09
59.5	317,254		0.0000	1.0000	82.09
60.5	317,254		0.0000	1.0000	82.09
61.5	317,254		0.0000	1.0000	82.09
62.5	317,254		0.0000	1.0000	82.09
63.5	317,254		0.0000	1.0000	82.09
64.5	317,254		0.0000	1.0000	82.09
65.5	317,254		0.0000	1.0000	82.09
66.5	317,254	158,627	0.5000	0.5000	82.09
67.5	158,627	158,627	1.0000		41.05
68.5					

DUKE ENERGY CAROLINAS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1941-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	268,719,674	16,302	0.0001	0.9999	100.00
0.5	254,341,248	3,932,000	0.0155	0.9845	99.99
1.5	237,925,380	357,346	0.0015	0.9985	98.45
2.5	229,774,180	743,250	0.0032	0.9968	98.30
3.5	224,912,316	242,664	0.0011	0.9989	97.98
4.5	223,641,174	1,166,765	0.0052	0.9948	97.88
5.5	195,127,483	164,178	0.0008	0.9992	97.37
6.5	154,545,360	167,550	0.0011	0.9989	97.28
7.5	161,826,791	198,081	0.0012	0.9988	97.18
8.5	147,751,553	148,021	0.0010	0.9990	97.06
9.5	154,447,338	91,906	0.0006	0.9994	96.96
10.5	153,683,411	200,672	0.0013	0.9987	96.90
11.5	137,950,296	547,190	0.0040	0.9960	96.78
12.5	130,809,791	98,066	0.0007	0.9993	96.39
13.5	133,514,938	2,052,215	0.0154	0.9846	96.32
14.5	135,310,354	119,000	0.0009	0.9991	94.84
15.5	138,156,931	502,130	0.0036	0.9964	94.76
16.5	147,005,296	295,444	0.0020	0.9980	94.41
17.5	154,076,655	124,921	0.0008	0.9992	94.22
18.5	155,465,438	82,691	0.0005	0.9995	94.15
19.5	158,130,539	126,989	0.0008	0.9992	94.10
20.5	162,385,579	32,284	0.0002	0.9998	94.02
21.5	171,082,078	505,070	0.0030	0.9970	94.00
22.5	168,747,940	665,314	0.0039	0.9961	93.73
23.5	165,697,053	337,032	0.0020	0.9980	93.36
24.5	191,092,594	157,770	0.0008	0.9992	93.17
25.5	198,781,212	302,452	0.0015	0.9985	93.09
26.5	224,762,534	209,369	0.0009	0.9991	92.95
27.5	213,428,056	616,164	0.0029	0.9971	92.86
28.5	206,835,413	327,987	0.0016	0.9984	92.59
29.5	205,160,560	337,191	0.0016	0.9984	92.45
30.5	205,633,460	339,566	0.0017	0.9983	92.29
31.5	205,193,137	229,790	0.0011	0.9989	92.14
32.5	199,747,455	819,930	0.0041	0.9959	92.04
33.5	194,570,646	727,444	0.0037	0.9963	91.66
34.5	186,844,491	702,914	0.0038	0.9962	91.32
35.5	181,605,162	509,669	0.0028	0.9972	90.97
36.5	166,992,706	426,355	0.0026	0.9974	90.72
37.5	156,435,912	548,645	0.0035	0.9965	90.49
38.5	166,014,280	481,556	0.0029	0.9971	90.17

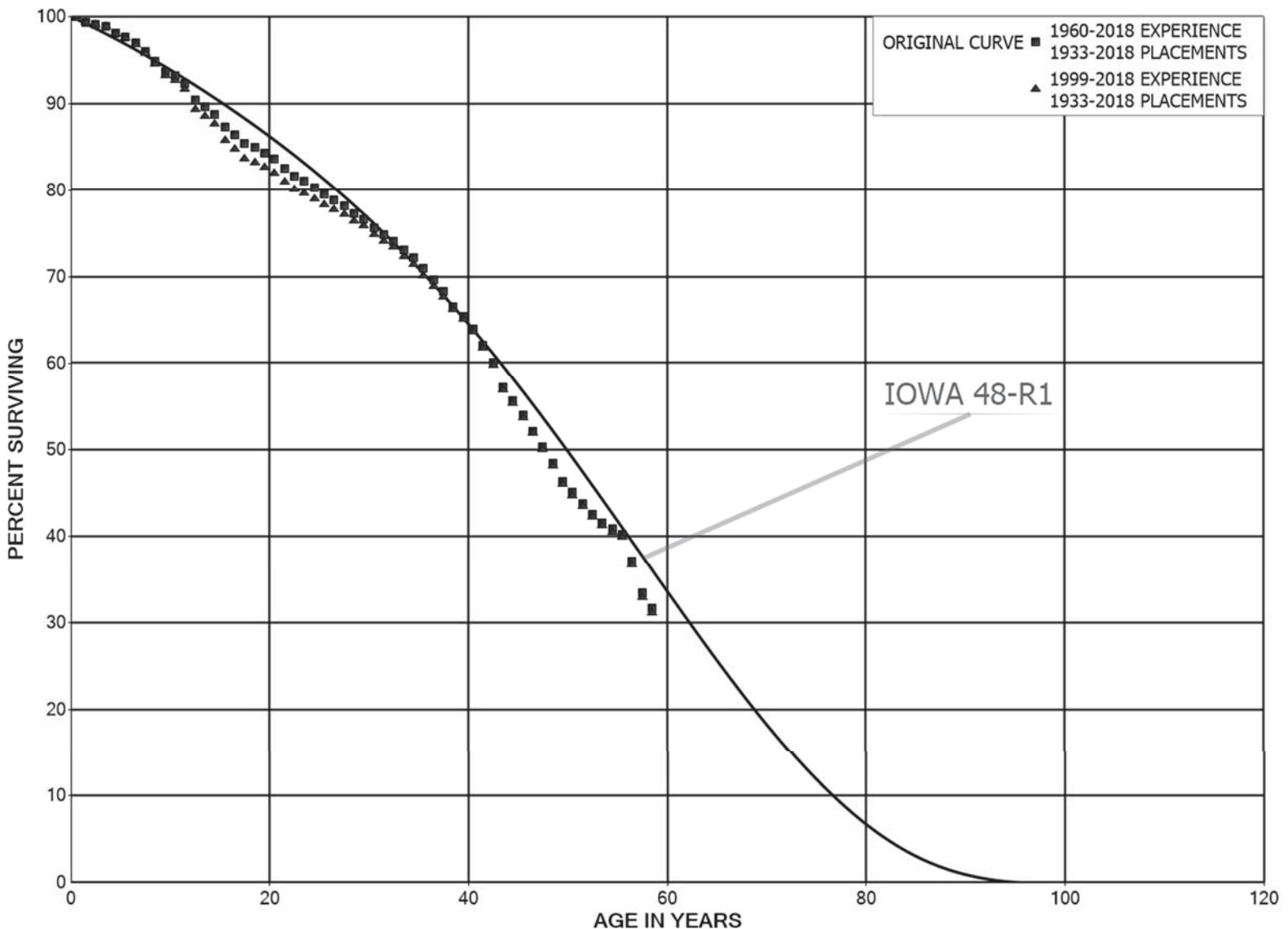
DUKE ENERGY CAROLINAS

ACCOUNT 354 TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1941-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	160,681,777	261,559	0.0016	0.9984	89.91
40.5	155,152,673	246,646	0.0016	0.9984	89.76
41.5	141,805,819	245,124	0.0017	0.9983	89.62
42.5	137,087,708	308,371	0.0022	0.9978	89.46
43.5	126,961,873	317,514	0.0025	0.9975	89.26
44.5	90,595,609	447,709	0.0049	0.9951	89.04
45.5	78,581,141	648,202	0.0082	0.9918	88.60
46.5	50,947,458	117,542	0.0023	0.9977	87.87
47.5	47,648,363	252,037	0.0053	0.9947	87.67
48.5	40,156,445	371,670	0.0093	0.9907	87.20
49.5	31,254,508	121,367	0.0039	0.9961	86.40
50.5	26,974,399	121,198	0.0045	0.9955	86.06
51.5	24,361,560	47,068	0.0019	0.9981	85.67
52.5	21,990,080	53,886	0.0025	0.9975	85.51
53.5	19,620,179	100,071	0.0051	0.9949	85.30
54.5	17,409,927	83,857	0.0048	0.9952	84.86
55.5	14,823,435	185,771	0.0125	0.9875	84.45
56.5	14,112,443	166,941	0.0118	0.9882	83.40
57.5	13,614,893	243,388	0.0179	0.9821	82.41
58.5	317,254		0.0000	1.0000	80.94
59.5	317,254		0.0000	1.0000	80.94
60.5	317,254		0.0000	1.0000	80.94
61.5	317,254		0.0000	1.0000	80.94
62.5	317,254		0.0000	1.0000	80.94
63.5	317,254		0.0000	1.0000	80.94
64.5	317,254		0.0000	1.0000	80.94
65.5	317,254		0.0000	1.0000	80.94
66.5	317,254	158,627	0.5000	0.5000	80.94
67.5	158,627	158,627	1.0000		40.47
68.5					

DUKE ENERGY CAROLINAS
ACCOUNT 355 POLES AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	617,422,235	301,289	0.0005	0.9995	100.00
0.5	560,935,959	3,512,545	0.0063	0.9937	99.95
1.5	433,331,669	913,782	0.0021	0.9979	99.33
2.5	397,934,045	1,033,545	0.0026	0.9974	99.12
3.5	371,933,701	2,854,169	0.0077	0.9923	98.86
4.5	342,554,256	1,722,526	0.0050	0.9950	98.10
5.5	321,567,096	2,092,998	0.0065	0.9935	97.61
6.5	305,222,319	3,159,298	0.0104	0.9896	96.97
7.5	291,084,188	3,360,298	0.0115	0.9885	95.97
8.5	273,682,793	3,439,641	0.0126	0.9874	94.86
9.5	259,811,003	1,350,812	0.0052	0.9948	93.67
10.5	227,131,543	2,173,891	0.0096	0.9904	93.18
11.5	212,155,181	4,410,341	0.0208	0.9792	92.29
12.5	190,351,526	1,705,605	0.0090	0.9910	90.37
13.5	164,190,054	1,455,669	0.0089	0.9911	89.56
14.5	145,003,445	2,477,571	0.0171	0.9829	88.77
15.5	131,511,501	1,368,347	0.0104	0.9896	87.25
16.5	112,382,338	1,283,850	0.0114	0.9886	86.34
17.5	103,764,096	565,199	0.0054	0.9946	85.36
18.5	91,714,331	631,814	0.0069	0.9931	84.89
19.5	87,189,923	685,527	0.0079	0.9921	84.31
20.5	81,517,219	1,088,603	0.0134	0.9866	83.64
21.5	77,016,029	828,047	0.0108	0.9892	82.53
22.5	73,227,826	563,757	0.0077	0.9923	81.64
23.5	68,818,932	620,238	0.0090	0.9910	81.01
24.5	64,160,061	643,955	0.0100	0.9900	80.28
25.5	60,851,024	515,204	0.0085	0.9915	79.47
26.5	57,892,423	477,364	0.0082	0.9918	78.80
27.5	54,426,623	623,953	0.0115	0.9885	78.15
28.5	50,878,996	450,302	0.0089	0.9911	77.26
29.5	47,373,615	599,252	0.0126	0.9874	76.57
30.5	43,903,788	443,152	0.0101	0.9899	75.60
31.5	41,897,441	416,362	0.0099	0.9901	74.84
32.5	38,428,583	508,491	0.0132	0.9868	74.10
33.5	36,779,830	449,687	0.0122	0.9878	73.12
34.5	33,102,897	579,231	0.0175	0.9825	72.22
35.5	30,615,164	560,337	0.0183	0.9817	70.96
36.5	28,727,494	553,135	0.0193	0.9807	69.66
37.5	26,191,090	682,607	0.0261	0.9739	68.32
38.5	23,774,559	424,346	0.0178	0.9822	66.54

DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	21,976,659	474,829	0.0216	0.9784	65.35
40.5	20,998,473	616,430	0.0294	0.9706	63.94
41.5	18,900,694	617,389	0.0327	0.9673	62.06
42.5	17,868,832	850,057	0.0476	0.9524	60.03
43.5	15,662,914	440,472	0.0281	0.9719	57.18
44.5	12,354,735	363,885	0.0295	0.9705	55.57
45.5	11,411,049	384,192	0.0337	0.9663	53.93
46.5	9,883,902	349,555	0.0354	0.9646	52.12
47.5	8,931,613	326,748	0.0366	0.9634	50.27
48.5	7,465,369	324,822	0.0435	0.9565	48.44
49.5	5,891,155	167,204	0.0284	0.9716	46.33
50.5	4,804,299	132,870	0.0277	0.9723	45.01
51.5	3,822,656	108,393	0.0284	0.9716	43.77
52.5	3,322,819	75,765	0.0228	0.9772	42.53
53.5	2,926,416	53,787	0.0184	0.9816	41.56
54.5	2,660,810	38,208	0.0144	0.9856	40.79
55.5	2,440,732	189,612	0.0777	0.9223	40.21
56.5	2,130,627	213,692	0.1003	0.8997	37.08
57.5	1,809,793	93,695	0.0518	0.9482	33.36
58.5	116,914	732	0.0063	0.9937	31.64
59.5	115,944	873	0.0075	0.9925	31.44
60.5	115,071	48	0.0004	0.9996	31.20
61.5	115,023	1,107	0.0096	0.9904	31.19
62.5	97,966	1,410	0.0144	0.9856	30.89
63.5	76,825	365	0.0047	0.9953	30.44
64.5	71,582		0.0000	1.0000	30.30
65.5	71,582		0.0000	1.0000	30.30
66.5	71,582	17,559	0.2453	0.7547	30.30
67.5	54,023		0.0000	1.0000	22.87
68.5	54,023	1,344	0.0249	0.9751	22.87
69.5	52,679		0.0000	1.0000	22.30
70.5	52,679		0.0000	1.0000	22.30
71.5	52,679		0.0000	1.0000	22.30
72.5	52,679		0.0000	1.0000	22.30
73.5	52,679		0.0000	1.0000	22.30
74.5	52,679		0.0000	1.0000	22.30
75.5	52,679		0.0000	1.0000	22.30
76.5	52,679	2,163	0.0411	0.9589	22.30
77.5	35,120		0.0000	1.0000	21.38
78.5	35,120		0.0000	1.0000	21.38

DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	35,120		0.0000	1.0000	21.38
80.5	35,120		0.0000	1.0000	21.38
81.5	35,120		0.0000	1.0000	21.38
82.5	35,120		0.0000	1.0000	21.38
83.5	35,120		0.0000	1.0000	21.38
84.5	35,120	7,873	0.2242	0.7758	21.38
85.5					16.59

DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	522,473,053	216,137	0.0004	0.9996	100.00
0.5	471,430,840	3,233,675	0.0069	0.9931	99.96
1.5	347,858,434	568,765	0.0016	0.9984	99.27
2.5	316,377,725	715,283	0.0023	0.9977	99.11
3.5	294,847,437	2,657,832	0.0090	0.9910	98.89
4.5	269,985,907	1,461,422	0.0054	0.9946	98.00
5.5	252,138,089	1,849,258	0.0073	0.9927	97.46
6.5	238,751,353	2,641,066	0.0111	0.9889	96.75
7.5	228,623,364	2,760,982	0.0121	0.9879	95.68
8.5	215,280,987	3,093,216	0.0144	0.9856	94.52
9.5	205,286,942	1,225,645	0.0060	0.9940	93.17
10.5	176,035,153	1,970,156	0.0112	0.9888	92.61
11.5	163,154,026	4,003,907	0.0245	0.9755	91.57
12.5	145,199,094	1,401,201	0.0097	0.9903	89.33
13.5	120,673,504	1,217,693	0.0101	0.9899	88.46
14.5	105,340,248	2,160,026	0.0205	0.9795	87.57
15.5	94,413,521	1,187,777	0.0126	0.9874	85.78
16.5	77,115,410	987,264	0.0128	0.9872	84.70
17.5	71,138,317	359,506	0.0051	0.9949	83.61
18.5	61,460,898	418,802	0.0068	0.9932	83.19
19.5	59,016,165	439,635	0.0074	0.9926	82.62
20.5	54,369,990	702,806	0.0129	0.9871	82.01
21.5	52,295,051	551,974	0.0106	0.9894	80.95
22.5	49,425,456	325,847	0.0066	0.9934	80.09
23.5	47,118,990	364,616	0.0077	0.9923	79.56
24.5	46,822,714	398,759	0.0085	0.9915	78.95
25.5	44,670,681	300,916	0.0067	0.9933	78.28
26.5	43,856,091	323,640	0.0074	0.9926	77.75
27.5	41,655,656	435,043	0.0104	0.9896	77.18
28.5	40,150,020	295,293	0.0074	0.9926	76.37
29.5	38,648,078	505,662	0.0131	0.9869	75.81
30.5	36,875,778	350,308	0.0095	0.9905	74.82
31.5	36,245,275	373,996	0.0103	0.9897	74.11
32.5	33,627,985	477,656	0.0142	0.9858	73.34
33.5	32,562,324	410,176	0.0126	0.9874	72.30
34.5	29,304,731	531,551	0.0181	0.9819	71.39
35.5	27,226,306	483,262	0.0177	0.9823	70.09
36.5	25,710,303	445,323	0.0173	0.9827	68.85
37.5	23,512,033	501,181	0.0213	0.9787	67.66
38.5	23,654,486	424,346	0.0179	0.9821	66.21

DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	21,857,340	474,829	0.0217	0.9783	65.03
40.5	20,879,154	616,430	0.0295	0.9705	63.61
41.5	18,781,375	617,389	0.0329	0.9671	61.74
42.5	17,769,528	850,057	0.0478	0.9522	59.71
43.5	15,586,005	440,472	0.0283	0.9717	56.85
44.5	12,283,069	363,885	0.0296	0.9704	55.24
45.5	11,339,383	384,192	0.0339	0.9661	53.61
46.5	9,812,236	349,555	0.0356	0.9644	51.79
47.5	8,859,947	326,748	0.0369	0.9631	49.95
48.5	7,393,703	324,822	0.0439	0.9561	48.10
49.5	5,819,489	167,204	0.0287	0.9713	45.99
50.5	4,732,633	132,870	0.0281	0.9719	44.67
51.5	3,750,990	108,393	0.0289	0.9711	43.42
52.5	3,251,153	75,765	0.0233	0.9767	42.16
53.5	2,854,750	53,787	0.0188	0.9812	41.18
54.5	2,589,144	38,208	0.0148	0.9852	40.40
55.5	2,369,066	189,612	0.0800	0.9200	39.81
56.5	2,059,045	213,692	0.1038	0.8962	36.62
57.5	1,773,329	93,695	0.0528	0.9472	32.82
58.5	80,450	732	0.0091	0.9909	31.09
59.5	79,480	873	0.0110	0.9890	30.80
60.5	78,607	48	0.0006	0.9994	30.46
61.5	78,559	1,107	0.0141	0.9859	30.45
62.5	61,502	1,410	0.0229	0.9771	30.02
63.5	40,361	365	0.0090	0.9910	29.33
64.5	35,118		0.0000	1.0000	29.06
65.5	71,582		0.0000	1.0000	29.06
66.5	71,582	17,559	0.2453	0.7547	29.06
67.5	54,023		0.0000	1.0000	21.93
68.5	54,023	1,344	0.0249	0.9751	21.93
69.5	52,679		0.0000	1.0000	21.39
70.5	52,679		0.0000	1.0000	21.39
71.5	52,679		0.0000	1.0000	21.39
72.5	52,679		0.0000	1.0000	21.39
73.5	52,679		0.0000	1.0000	21.39
74.5	52,679		0.0000	1.0000	21.39
75.5	52,679		0.0000	1.0000	21.39
76.5	52,679	2,163	0.0411	0.9589	21.39
77.5	35,120		0.0000	1.0000	20.51
78.5	35,120		0.0000	1.0000	20.51

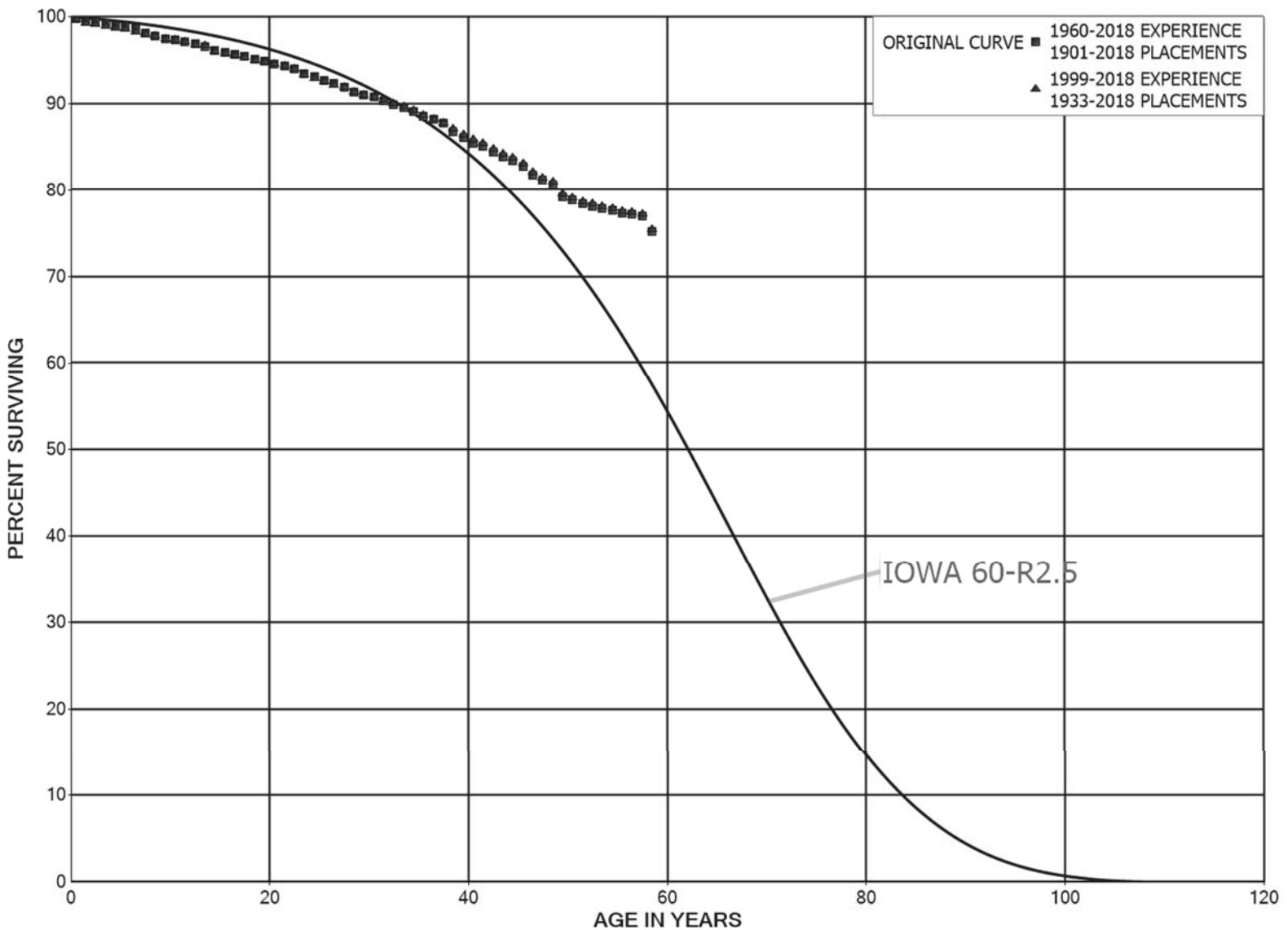
DUKE ENERGY CAROLINAS

ACCOUNT 355 POLES AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	35,120		0.0000	1.0000	20.51
80.5	35,120		0.0000	1.0000	20.51
81.5	35,120		0.0000	1.0000	20.51
82.5	35,120		0.0000	1.0000	20.51
83.5	35,120		0.0000	1.0000	20.51
84.5	35,120	7,873	0.2242	0.7758	20.51
85.5					15.91

DUKE ENERGY CAROLINAS
ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1901-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	814,266,338	2,098,264	0.0026	0.9974	100.00
0.5	741,319,306	2,256,540	0.0030	0.9970	99.74
1.5	711,047,281	640,051	0.0009	0.9991	99.44
2.5	677,646,930	1,326,084	0.0020	0.9980	99.35
3.5	645,302,183	1,362,856	0.0021	0.9979	99.15
4.5	614,381,089	924,355	0.0015	0.9985	98.95
5.5	591,450,791	1,070,166	0.0018	0.9982	98.80
6.5	578,056,133	3,514,651	0.0061	0.9939	98.62
7.5	551,289,144	1,769,345	0.0032	0.9968	98.02
8.5	521,003,338	1,479,470	0.0028	0.9972	97.70
9.5	479,892,319	687,194	0.0014	0.9986	97.43
10.5	450,632,400	804,707	0.0018	0.9982	97.29
11.5	424,736,669	1,312,636	0.0031	0.9969	97.11
12.5	387,637,350	1,183,812	0.0031	0.9969	96.81
13.5	359,366,876	1,707,037	0.0048	0.9952	96.52
14.5	335,342,636	722,102	0.0022	0.9978	96.06
15.5	320,972,407	916,998	0.0029	0.9971	95.85
16.5	304,409,823	686,289	0.0023	0.9977	95.58
17.5	298,023,014	1,029,897	0.0035	0.9965	95.36
18.5	290,852,113	656,184	0.0023	0.9977	95.03
19.5	286,352,701	931,178	0.0033	0.9967	94.82
20.5	281,360,989	733,792	0.0026	0.9974	94.51
21.5	274,052,853	922,855	0.0034	0.9966	94.26
22.5	266,814,466	1,510,651	0.0057	0.9943	93.95
23.5	247,256,264	1,024,782	0.0041	0.9959	93.41
24.5	236,323,082	929,844	0.0039	0.9961	93.03
25.5	231,117,742	1,055,200	0.0046	0.9954	92.66
26.5	227,808,543	983,111	0.0043	0.9957	92.24
27.5	215,746,186	1,234,699	0.0057	0.9943	91.84
28.5	202,605,614	725,653	0.0036	0.9964	91.31
29.5	193,466,194	633,674	0.0033	0.9967	90.99
30.5	188,166,081	890,099	0.0047	0.9953	90.69
31.5	183,628,258	770,939	0.0042	0.9958	90.26
32.5	175,785,465	701,948	0.0040	0.9960	89.88
33.5	170,924,708	894,407	0.0052	0.9948	89.52
34.5	162,753,245	908,240	0.0056	0.9944	89.05
35.5	156,498,151	627,089	0.0040	0.9960	88.56
36.5	144,148,022	827,734	0.0057	0.9943	88.20
37.5	134,767,898	1,491,801	0.0111	0.9889	87.70
38.5	127,854,476	1,024,549	0.0080	0.9920	86.73

DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1901-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	122,238,055	824,761	0.0067	0.9933	86.03
40.5	117,285,043	497,403	0.0042	0.9958	85.45
41.5	108,062,549	874,191	0.0081	0.9919	85.09
42.5	102,986,810	632,221	0.0061	0.9939	84.40
43.5	94,874,509	601,788	0.0063	0.9937	83.88
44.5	70,582,093	558,566	0.0079	0.9921	83.35
45.5	61,635,895	738,722	0.0120	0.9880	82.69
46.5	41,826,617	288,523	0.0069	0.9931	81.70
47.5	39,524,134	258,841	0.0065	0.9935	81.13
48.5	34,535,568	597,475	0.0173	0.9827	80.60
49.5	28,314,546	152,383	0.0054	0.9946	79.21
50.5	24,786,162	132,761	0.0054	0.9946	78.78
51.5	22,481,733	81,073	0.0036	0.9964	78.36
52.5	20,148,878	65,074	0.0032	0.9968	78.08
53.5	18,146,596	60,015	0.0033	0.9967	77.83
54.5	16,551,160	58,986	0.0036	0.9964	77.57
55.5	15,195,607	32,515	0.0021	0.9979	77.29
56.5	14,656,115	29,205	0.0020	0.9980	77.13
57.5	13,263,517	310,033	0.0234	0.9766	76.97
58.5	754,599	23	0.0000	1.0000	75.17
59.5	754,577	633	0.0008	0.9992	75.17
60.5	753,944	235	0.0003	0.9997	75.11
61.5	748,519	31	0.0000	1.0000	75.08
62.5	746,391	298	0.0004	0.9996	75.08
63.5	726,612	63	0.0001	0.9999	75.05
64.5	722,568	98	0.0001	0.9999	75.05
65.5	722,470		0.0000	1.0000	75.04
66.5	722,470	127,146	0.1760	0.8240	75.04
67.5	595,324	83,926	0.1410	0.8590	61.83
68.5	505,466	9	0.0000	1.0000	53.11
69.5	504,974		0.0000	1.0000	53.11
70.5	504,974		0.0000	1.0000	53.11
71.5	504,974		0.0000	1.0000	53.11
72.5	504,974	0	0.0000	1.0000	53.11
73.5	504,974	586	0.0012	0.9988	53.11
74.5	504,387	387	0.0008	0.9992	53.05
75.5	504,000		0.0000	1.0000	53.01
76.5	504,000	1,084	0.0022	0.9978	53.01
77.5	461,256	132	0.0003	0.9997	52.90
78.5	456,237		0.0000	1.0000	52.88

DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1901-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	456,237		0.0000	1.0000	52.88
80.5	456,237		0.0000	1.0000	52.88
81.5	456,237	18	0.0000	1.0000	52.88
82.5	455,633		0.0000	1.0000	52.88
83.5	455,633		0.0000	1.0000	52.88
84.5	455,633	621	0.0014	0.9986	52.88
85.5	454,967		0.0000	1.0000	52.81
86.5	454,967		0.0000	1.0000	52.81
87.5	454,967		0.0000	1.0000	52.81
88.5	454,967		0.0000	1.0000	52.81
89.5	454,967		0.0000	1.0000	52.81
90.5	454,967		0.0000	1.0000	52.81
91.5	454,967	206	0.0005	0.9995	52.81
92.5					52.78

DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1933-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	513,412,827	2,062,817	0.0040	0.9960	100.00
0.5	444,784,198	2,028,231	0.0046	0.9954	99.60
1.5	421,701,012	389,452	0.0009	0.9991	99.14
2.5	394,818,910	723,975	0.0018	0.9982	99.05
3.5	382,162,368	1,117,908	0.0029	0.9971	98.87
4.5	361,915,834	429,268	0.0012	0.9988	98.58
5.5	343,829,610	862,791	0.0025	0.9975	98.46
6.5	333,874,767	1,104,434	0.0033	0.9967	98.22
7.5	321,086,137	655,652	0.0020	0.9980	97.89
8.5	304,434,106	948,224	0.0031	0.9969	97.69
9.5	272,938,558	381,318	0.0014	0.9986	97.39
10.5	249,368,166	526,588	0.0021	0.9979	97.25
11.5	227,736,655	680,303	0.0030	0.9970	97.05
12.5	198,767,152	362,878	0.0018	0.9982	96.76
13.5	175,677,712	1,231,003	0.0070	0.9930	96.58
14.5	159,987,448	272,635	0.0017	0.9983	95.90
15.5	152,162,043	380,795	0.0025	0.9975	95.74
16.5	148,313,317	324,716	0.0022	0.9978	95.50
17.5	152,108,325	503,637	0.0033	0.9967	95.29
18.5	151,192,345	318,995	0.0021	0.9979	94.98
19.5	152,131,991	430,121	0.0028	0.9972	94.78
20.5	152,278,804	318,483	0.0021	0.9979	94.51
21.5	154,947,715	571,391	0.0037	0.9963	94.31
22.5	152,731,459	1,099,809	0.0072	0.9928	93.96
23.5	141,048,189	718,032	0.0051	0.9949	93.29
24.5	155,889,535	584,979	0.0038	0.9962	92.81
25.5	159,855,286	606,044	0.0038	0.9962	92.46
26.5	177,036,727	632,942	0.0036	0.9964	92.11
27.5	167,850,284	952,090	0.0057	0.9943	91.78
28.5	160,488,555	490,545	0.0031	0.9969	91.26
29.5	158,278,257	477,501	0.0030	0.9970	90.98
30.5	157,890,139	600,895	0.0038	0.9962	90.71
31.5	156,623,180	699,852	0.0045	0.9955	90.36
32.5	151,563,143	670,477	0.0044	0.9956	89.96
33.5	149,104,754	721,791	0.0048	0.9952	89.56
34.5	143,009,233	852,588	0.0060	0.9940	89.13
35.5	138,358,705	621,887	0.0045	0.9955	88.60
36.5	126,732,191	691,474	0.0055	0.9945	88.20
37.5	119,138,401	864,448	0.0073	0.9927	87.72
38.5	127,554,637	1,024,549	0.0080	0.9920	87.08

DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	121,938,216	824,761	0.0068	0.9932	86.38
40.5	116,985,204	497,403	0.0043	0.9957	85.80
41.5	107,768,180	874,191	0.0081	0.9919	85.43
42.5	102,694,591	632,221	0.0062	0.9938	84.74
43.5	94,602,702	601,788	0.0064	0.9936	84.22
44.5	70,314,492	558,566	0.0079	0.9921	83.68
45.5	61,368,294	738,722	0.0120	0.9880	83.02
46.5	41,559,016	288,523	0.0069	0.9931	82.02
47.5	39,256,533	258,841	0.0066	0.9934	81.45
48.5	34,274,107	597,475	0.0174	0.9826	80.91
49.5	28,053,577	152,383	0.0054	0.9946	79.50
50.5	24,525,193	132,761	0.0054	0.9946	79.07
51.5	22,220,764	81,073	0.0036	0.9964	78.64
52.5	19,887,909	65,074	0.0033	0.9967	78.35
53.5	17,885,627	60,015	0.0034	0.9966	78.10
54.5	16,290,191	58,986	0.0036	0.9964	77.84
55.5	14,934,638	32,515	0.0022	0.9978	77.55
56.5	14,395,146	29,205	0.0020	0.9980	77.39
57.5	13,256,840	310,033	0.0234	0.9766	77.23
58.5	298,362	23	0.0001	0.9999	75.42
59.5	298,340	633	0.0021	0.9979	75.42
60.5	297,707	235	0.0008	0.9992	75.26
61.5	292,282	31	0.0001	0.9999	75.20
62.5	290,758	298	0.0010	0.9990	75.19
63.5	270,979	63	0.0002	0.9998	75.11
64.5	266,935	98	0.0004	0.9996	75.09
65.5	267,503		0.0000	1.0000	75.07
66.5	267,503	127,146	0.4753	0.5247	75.07
67.5	140,357	83,926	0.5979	0.4021	39.39
68.5	50,499	9	0.0002	0.9998	15.84
69.5	50,007		0.0000	1.0000	15.83
70.5	50,007		0.0000	1.0000	15.83
71.5	50,007		0.0000	1.0000	15.83
72.5	50,007	0	0.0000	1.0000	15.83
73.5	50,007	586	0.0117	0.9883	15.83
74.5	49,420	387	0.0078	0.9922	15.65
75.5	49,033		0.0000	1.0000	15.52
76.5	49,033	1,084	0.0221	0.9779	15.52
77.5	6,289	132	0.0210	0.9790	15.18
78.5	1,270		0.0000	1.0000	14.86

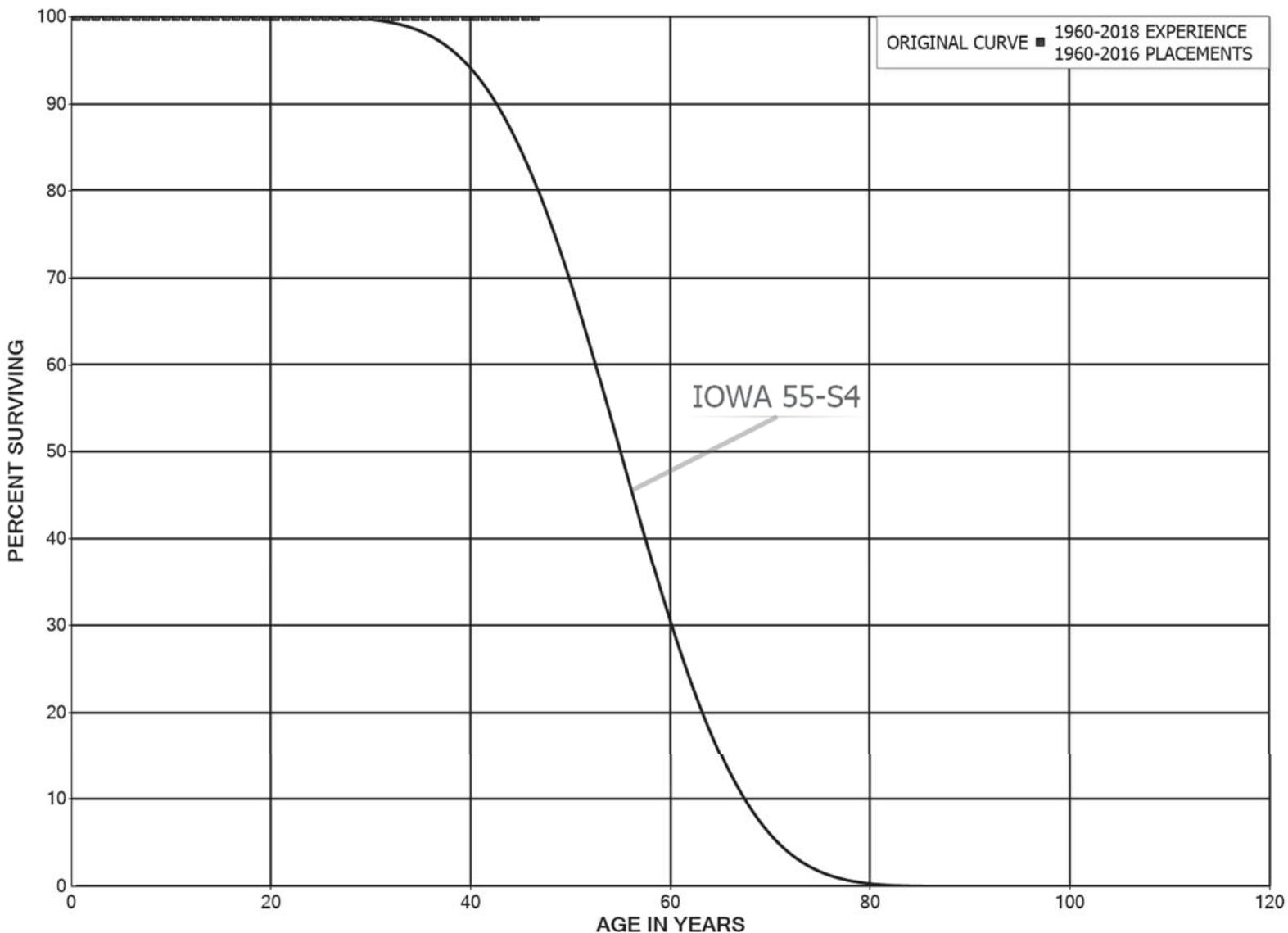
DUKE ENERGY CAROLINAS

ACCOUNT 356 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1933-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	1,270		0.0000	1.0000	14.86
80.5	1,270		0.0000	1.0000	14.86
81.5	1,270	18	0.0145	0.9855	14.86
82.5	666		0.0000	1.0000	14.65
83.5	666		0.0000	1.0000	14.65
84.5	666	621	0.9329	0.0671	14.65
85.5					0.98

DUKE ENERGY CAROLINAS
ACCOUNT 357 UNDERGROUND CONDUIT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 357 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2016		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	124,267		0.0000	1.0000	100.00
0.5	124,267		0.0000	1.0000	100.00
1.5	124,267		0.0000	1.0000	100.00
2.5	111,460		0.0000	1.0000	100.00
3.5	111,453		0.0000	1.0000	100.00
4.5	111,453		0.0000	1.0000	100.00
5.5	111,387		0.0000	1.0000	100.00
6.5	111,185		0.0000	1.0000	100.00
7.5	110,392		0.0000	1.0000	100.00
8.5	110,392		0.0000	1.0000	100.00
9.5	105,047		0.0000	1.0000	100.00
10.5	105,047		0.0000	1.0000	100.00
11.5	105,047		0.0000	1.0000	100.00
12.5	105,047		0.0000	1.0000	100.00
13.5	105,047		0.0000	1.0000	100.00
14.5	105,047		0.0000	1.0000	100.00
15.5	105,047		0.0000	1.0000	100.00
16.5	105,047		0.0000	1.0000	100.00
17.5	105,047		0.0000	1.0000	100.00
18.5	105,047		0.0000	1.0000	100.00
19.5	105,047	93	0.0009	0.9991	100.00
20.5	104,954		0.0000	1.0000	99.91
21.5	104,954		0.0000	1.0000	99.91
22.5	104,954		0.0000	1.0000	99.91
23.5	104,954		0.0000	1.0000	99.91
24.5	104,954		0.0000	1.0000	99.91
25.5	104,954		0.0000	1.0000	99.91
26.5	104,954		0.0000	1.0000	99.91
27.5	104,954		0.0000	1.0000	99.91
28.5	104,954		0.0000	1.0000	99.91
29.5	104,954		0.0000	1.0000	99.91
30.5	104,954		0.0000	1.0000	99.91
31.5	53,974		0.0000	1.0000	99.91
32.5	53,974		0.0000	1.0000	99.91
33.5	53,974		0.0000	1.0000	99.91
34.5	53,974		0.0000	1.0000	99.91
35.5	53,974		0.0000	1.0000	99.91
36.5	53,974		0.0000	1.0000	99.91
37.5	53,974		0.0000	1.0000	99.91
38.5	53,974		0.0000	1.0000	99.91

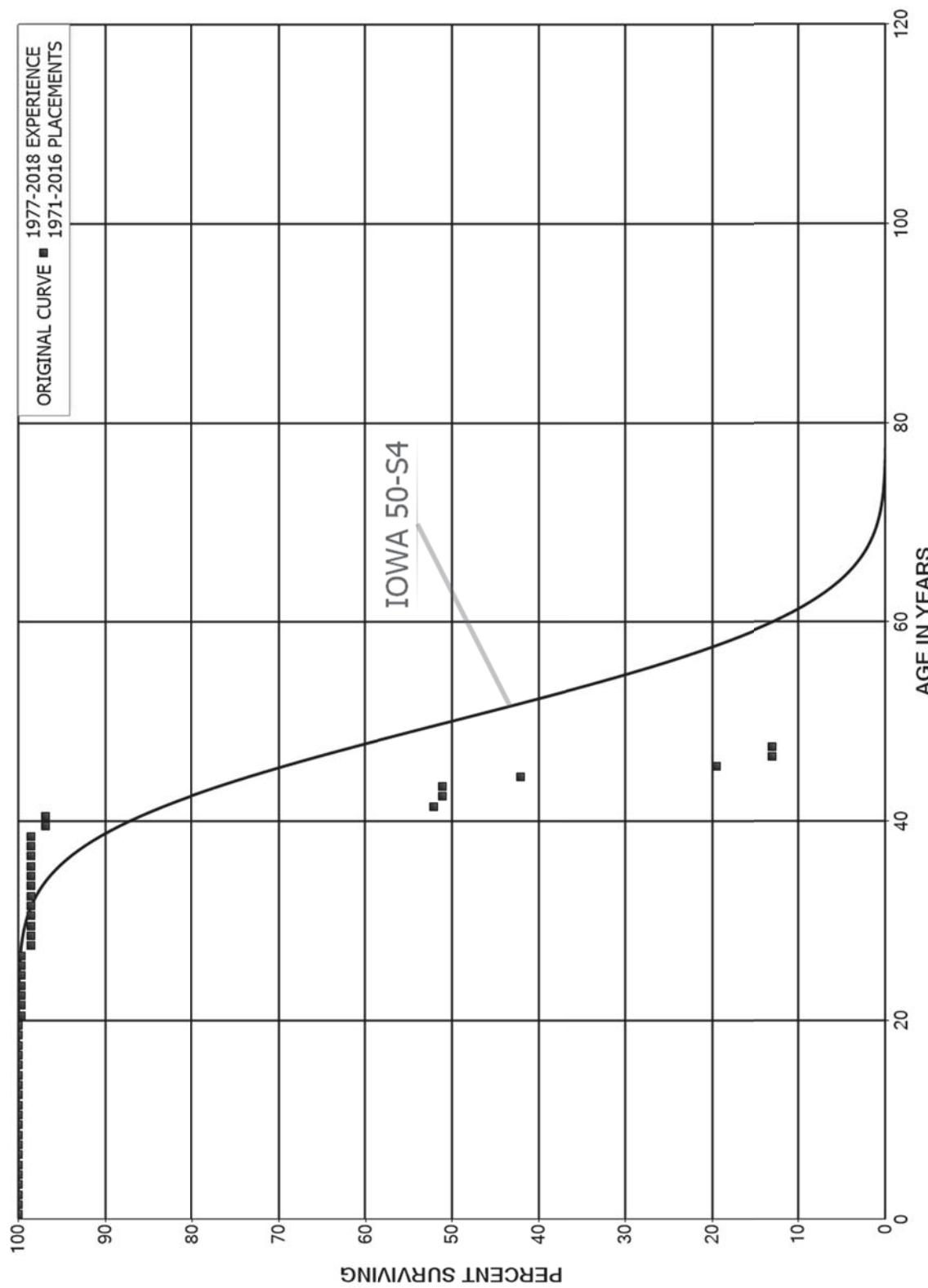
DUKE ENERGY CAROLINAS

ACCOUNT 357 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2016			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	53,974		0.0000	1.0000	99.91
40.5	53,974		0.0000	1.0000	99.91
41.5	53,974		0.0000	1.0000	99.91
42.5	7,388		0.0000	1.0000	99.91
43.5	7,388		0.0000	1.0000	99.91
44.5	7,388		0.0000	1.0000	99.91
45.5	4,248		0.0000	1.0000	99.91
46.5	665		0.0000	1.0000	99.91
47.5	665		0.0000	1.0000	99.91
48.5	665		0.0000	1.0000	99.91
49.5	665		0.0000	1.0000	99.91
50.5	665		0.0000	1.0000	99.91
51.5	665		0.0000	1.0000	99.91
52.5	665		0.0000	1.0000	99.91
53.5	665		0.0000	1.0000	99.91
54.5	665		0.0000	1.0000	99.91
55.5	665		0.0000	1.0000	99.91
56.5	665		0.0000	1.0000	99.91
57.5	665		0.0000	1.0000	99.91
58.5					99.91

DUKE ENERGY CAROLINAS
ACCOUNT 358 UNDERGROUND CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 358 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1971-2016			EXPERIENCE BAND 1977-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	5,621,206		0.0000	1.0000	100.00
0.5	6,034,636		0.0000	1.0000	100.00
1.5	6,045,827		0.0000	1.0000	100.00
2.5	4,623,415		0.0000	1.0000	100.00
3.5	4,638,923		0.0000	1.0000	100.00
4.5	4,676,341		0.0000	1.0000	100.00
5.5	4,700,146		0.0000	1.0000	100.00
6.5	4,700,146		0.0000	1.0000	100.00
7.5	4,700,146		0.0000	1.0000	100.00
8.5	4,043,778		0.0000	1.0000	100.00
9.5	1,943,682		0.0000	1.0000	100.00
10.5	1,943,682		0.0000	1.0000	100.00
11.5	1,943,682		0.0000	1.0000	100.00
12.5	1,943,682		0.0000	1.0000	100.00
13.5	1,943,682		0.0000	1.0000	100.00
14.5	1,943,682		0.0000	1.0000	100.00
15.5	1,943,682		0.0000	1.0000	100.00
16.5	1,943,682		0.0000	1.0000	100.00
17.5	1,943,682		0.0000	1.0000	100.00
18.5	1,943,682		0.0000	1.0000	100.00
19.5	1,943,682	7,232	0.0037	0.9963	100.00
20.5	1,936,450		0.0000	1.0000	99.63
21.5	1,424,844		0.0000	1.0000	99.63
22.5	1,424,844		0.0000	1.0000	99.63
23.5	1,424,844		0.0000	1.0000	99.63
24.5	1,424,844		0.0000	1.0000	99.63
25.5	1,424,844		0.0000	1.0000	99.63
26.5	1,424,844	15,930	0.0112	0.9888	99.63
27.5	1,408,914		0.0000	1.0000	98.51
28.5	1,408,914		0.0000	1.0000	98.51
29.5	1,408,914		0.0000	1.0000	98.51
30.5	1,408,914		0.0000	1.0000	98.51
31.5	841,254		0.0000	1.0000	98.51
32.5	841,254		0.0000	1.0000	98.51
33.5	841,254		0.0000	1.0000	98.51
34.5	841,254		0.0000	1.0000	98.51
35.5	841,254		0.0000	1.0000	98.51
36.5	841,254		0.0000	1.0000	98.51
37.5	841,254		0.0000	1.0000	98.51
38.5	841,254	14,103	0.0168	0.9832	98.51

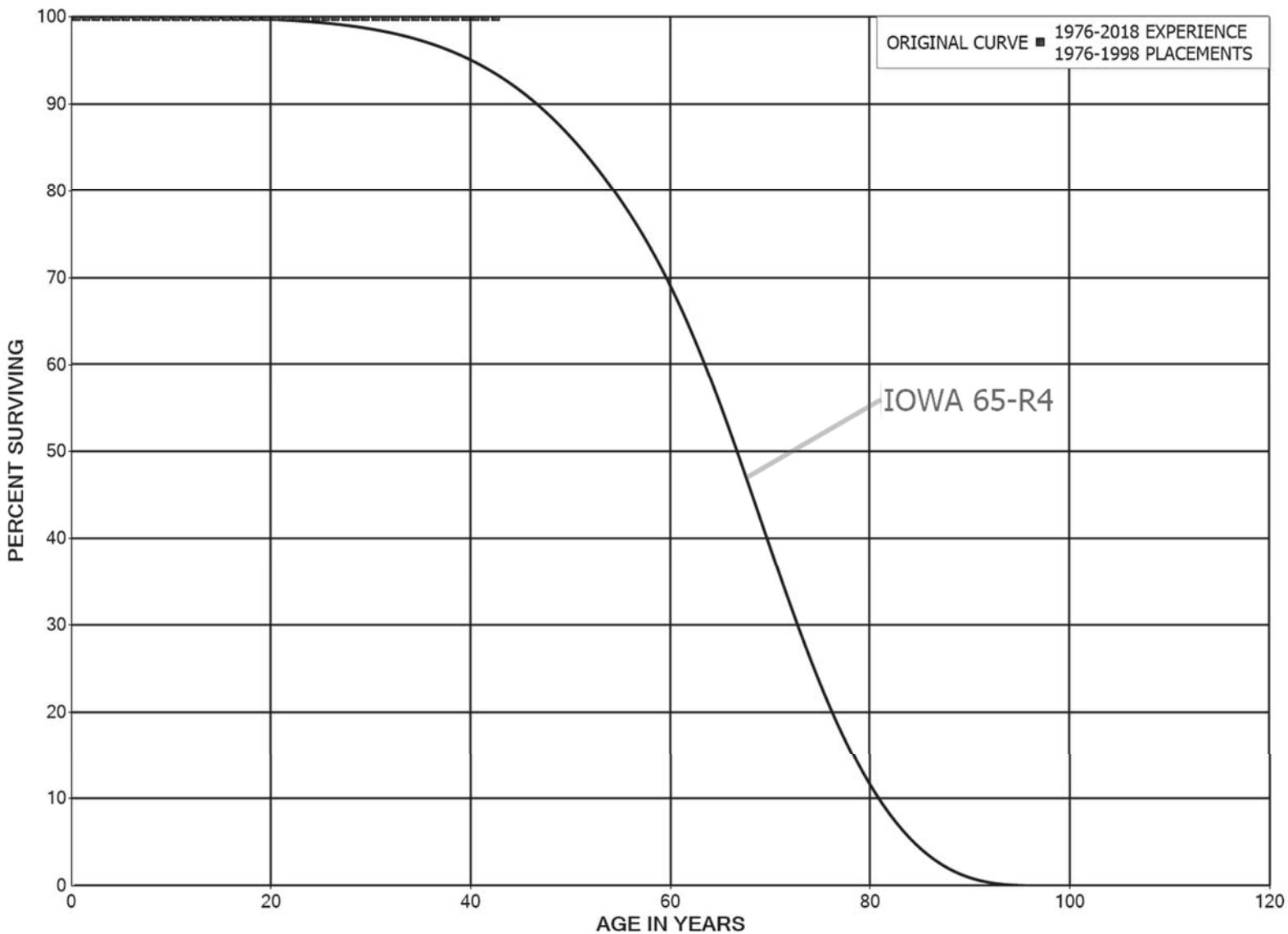
DUKE ENERGY CAROLINAS

ACCOUNT 358 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1971-2016			EXPERIENCE BAND 1977-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	501,856		0.0000	1.0000	96.86
40.5	485,422	224,691	0.4629	0.5371	96.86
41.5	260,731	4,794	0.0184	0.9816	52.03
42.5	67,339		0.0000	1.0000	51.07
43.5	60,801	10,746	0.1767	0.8233	51.07
44.5	50,055	26,769	0.5348	0.4652	42.04
45.5	18,524	6,291	0.3396	0.6604	19.56
46.5	1,584		0.0000	1.0000	12.92
47.5					12.92

DUKE ENERGY CAROLINAS
ACCOUNT 359 ROADS AND TRAILS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 359 ROADS AND TRAILS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1976-1998		EXPERIENCE BAND 1976-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	42,238	0.0000	1.0000	100.00	
0.5	42,238	0.0000	1.0000	100.00	
1.5	42,238	0.0000	1.0000	100.00	
2.5	42,238	0.0000	1.0000	100.00	
3.5	42,238	0.0000	1.0000	100.00	
4.5	42,238	0.0000	1.0000	100.00	
5.5	42,238	0.0000	1.0000	100.00	
6.5	42,238	0.0000	1.0000	100.00	
7.5	42,238	0.0000	1.0000	100.00	
8.5	42,238	0.0000	1.0000	100.00	
9.5	42,238	0.0000	1.0000	100.00	
10.5	42,238	0.0000	1.0000	100.00	
11.5	42,238	0.0000	1.0000	100.00	
12.5	42,238	0.0000	1.0000	100.00	
13.5	42,238	0.0000	1.0000	100.00	
14.5	42,238	0.0000	1.0000	100.00	
15.5	42,238	0.0000	1.0000	100.00	
16.5	42,238	0.0000	1.0000	100.00	
17.5	42,238	0.0000	1.0000	100.00	
18.5	42,238	0.0000	1.0000	100.00	
19.5	42,238	0.0000	1.0000	100.00	
20.5	41,544	0.0000	1.0000	100.00	
21.5	41,544	0.0000	1.0000	100.00	
22.5	41,544	0.0000	1.0000	100.00	
23.5	41,544	0.0000	1.0000	100.00	
24.5	41,544	0.0000	1.0000	100.00	
25.5	2,044	0.0000	1.0000	100.00	
26.5	2,044	0.0000	1.0000	100.00	
27.5	2,044	0.0000	1.0000	100.00	
28.5	2,044	0.0000	1.0000	100.00	
29.5	2,044	0.0000	1.0000	100.00	
30.5	2,044	0.0000	1.0000	100.00	
31.5	2,044	0.0000	1.0000	100.00	
32.5	2,044	0.0000	1.0000	100.00	
33.5	2,044	0.0000	1.0000	100.00	
34.5	2,044	0.0000	1.0000	100.00	
35.5	2,044	0.0000	1.0000	100.00	
36.5	2,044	0.0000	1.0000	100.00	
37.5	2,044	0.0000	1.0000	100.00	
38.5	2,044	0.0000	1.0000	100.00	

DUKE ENERGY CAROLINAS

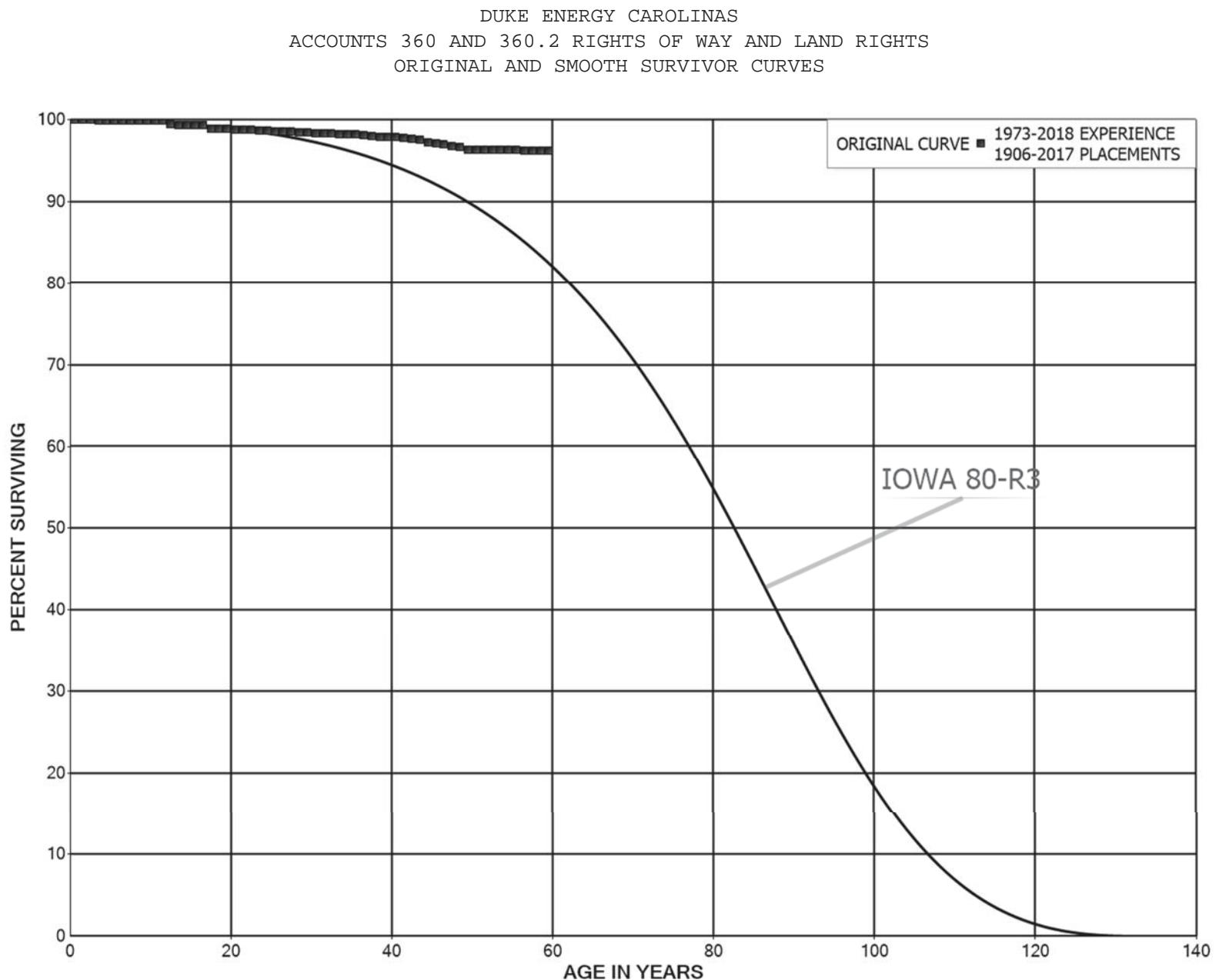
ACCOUNT 359 ROADS AND TRAILS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1976-1998

EXPERIENCE BAND 1976-2018

AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	2,044		0.0000	1.0000	100.00
40.5	2,044		0.0000	1.0000	100.00
41.5	2,044		0.0000	1.0000	100.00
42.5					100.00



DUKE ENERGY CAROLINAS

ACCOUNTS 360 AND 360.2 RIGHTS OF WAY AND LAND RIGHTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1906-2017	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	4,648,281		0.0000	1.0000	100.00
0.5	4,717,752	68	0.0000	1.0000	100.00
1.5	4,578,804	557	0.0001	0.9999	100.00
2.5	4,570,480	6,723	0.0015	0.9985	99.99
3.5	4,703,812	338	0.0001	0.9999	99.84
4.5	6,222,300	136	0.0000	1.0000	99.83
5.5	6,224,727	230	0.0000	1.0000	99.83
6.5	4,845,192	14	0.0000	1.0000	99.83
7.5	6,177,547	136	0.0000	1.0000	99.83
8.5	5,966,216	341	0.0001	0.9999	99.82
9.5	3,928,617	121	0.0000	1.0000	99.82
10.5	3,278,216	84	0.0000	1.0000	99.81
11.5	3,260,706	14,275	0.0044	0.9956	99.81
12.5	2,381,368	1,537	0.0006	0.9994	99.38
13.5	2,057,783	393	0.0002	0.9998	99.31
14.5	1,808,555	16	0.0000	1.0000	99.29
15.5	1,773,615	498	0.0003	0.9997	99.29
16.5	1,460,038	6,184	0.0042	0.9958	99.26
17.5	1,441,152	689	0.0005	0.9995	98.84
18.5	1,463,184	6	0.0000	1.0000	98.80
19.5	1,514,582	278	0.0002	0.9998	98.80
20.5	1,507,493	223	0.0001	0.9999	98.78
21.5	1,487,813	738	0.0005	0.9995	98.76
22.5	1,441,440	2,008	0.0014	0.9986	98.71
23.5	1,520,645	156	0.0001	0.9999	98.58
24.5	1,482,471	569	0.0004	0.9996	98.57
25.5	1,556,679	426	0.0003	0.9997	98.53
26.5	1,618,007	90	0.0001	0.9999	98.50
27.5	1,645,414	958	0.0006	0.9994	98.50
28.5	1,594,752	287	0.0002	0.9998	98.44
29.5	1,430,189	1,808	0.0013	0.9987	98.42
30.5	1,319,576	214	0.0002	0.9998	98.30
31.5	1,292,555	405	0.0003	0.9997	98.28
32.5	1,193,221	762	0.0006	0.9994	98.25
33.5	1,074,007	87	0.0001	0.9999	98.19
34.5	970,981	233	0.0002	0.9998	98.18
35.5	866,005	548	0.0006	0.9994	98.16
36.5	787,501	1,163	0.0015	0.9985	98.09
37.5	700,657	767	0.0011	0.9989	97.95
38.5	641,256	194	0.0003	0.9997	97.84

DUKE ENERGY CAROLINAS

ACCOUNTS 360 AND 360.2 RIGHTS OF WAY AND LAND RIGHTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2017		EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	605,287	70	0.0001	0.9999	97.81
40.5	571,623	387	0.0007	0.9993	97.80
41.5	540,554	441	0.0008	0.9992	97.73
42.5	529,664	621	0.0012	0.9988	97.65
43.5	500,270	1,901	0.0038	0.9962	97.54
44.5	479,982	272	0.0006	0.9994	97.17
45.5	446,793	936	0.0021	0.9979	97.11
46.5	415,295	646	0.0016	0.9984	96.91
47.5	406,769	510	0.0013	0.9987	96.76
48.5	395,709	1,474	0.0037	0.9963	96.64
49.5	353,542	12	0.0000	1.0000	96.28
50.5	322,787	11	0.0000	1.0000	96.28
51.5	283,878	12	0.0000	1.0000	96.27
52.5	250,814	8	0.0000	1.0000	96.27
53.5	226,043	9	0.0000	1.0000	96.26
54.5	210,437	7	0.0000	1.0000	96.26
55.5	195,487	70	0.0004	0.9996	96.26
56.5	185,194	9	0.0000	1.0000	96.22
57.5	27,181	4	0.0002	0.9998	96.22
58.5	14,269	3	0.0002	0.9998	96.20
59.5	20,203	5	0.0002	0.9998	96.19
60.5	21,903	1	0.0000	1.0000	96.16
61.5	25,905	1	0.0000	1.0000	96.16
62.5	28,647	2	0.0001	0.9999	96.16
63.5	27,416	0	0.0000	1.0000	96.15
64.5	27,094	2	0.0001	0.9999	96.15
65.5	25,768	4	0.0001	0.9999	96.14
66.5	23,592	4	0.0002	0.9998	96.13
67.5	22,302	14	0.0006	0.9994	96.11
68.5	15,604	10	0.0006	0.9994	96.05
69.5	10,173	9	0.0008	0.9992	95.99
70.5	5,506	6	0.0011	0.9989	95.91
71.5	2,383	0.0000	1.0000		95.81
72.5	2,383	0.0000	1.0000		95.81
73.5	2,383	0.0000	1.0000		95.81
74.5	4,884	0.0000	1.0000		95.81
75.5	5,464	2	0.0004	0.9996	95.81
76.5	6,362	3	0.0004	0.9996	95.77
77.5	12,979	0.0000	1.0000		95.73
78.5	13,711	0.0000	1.0000		95.73

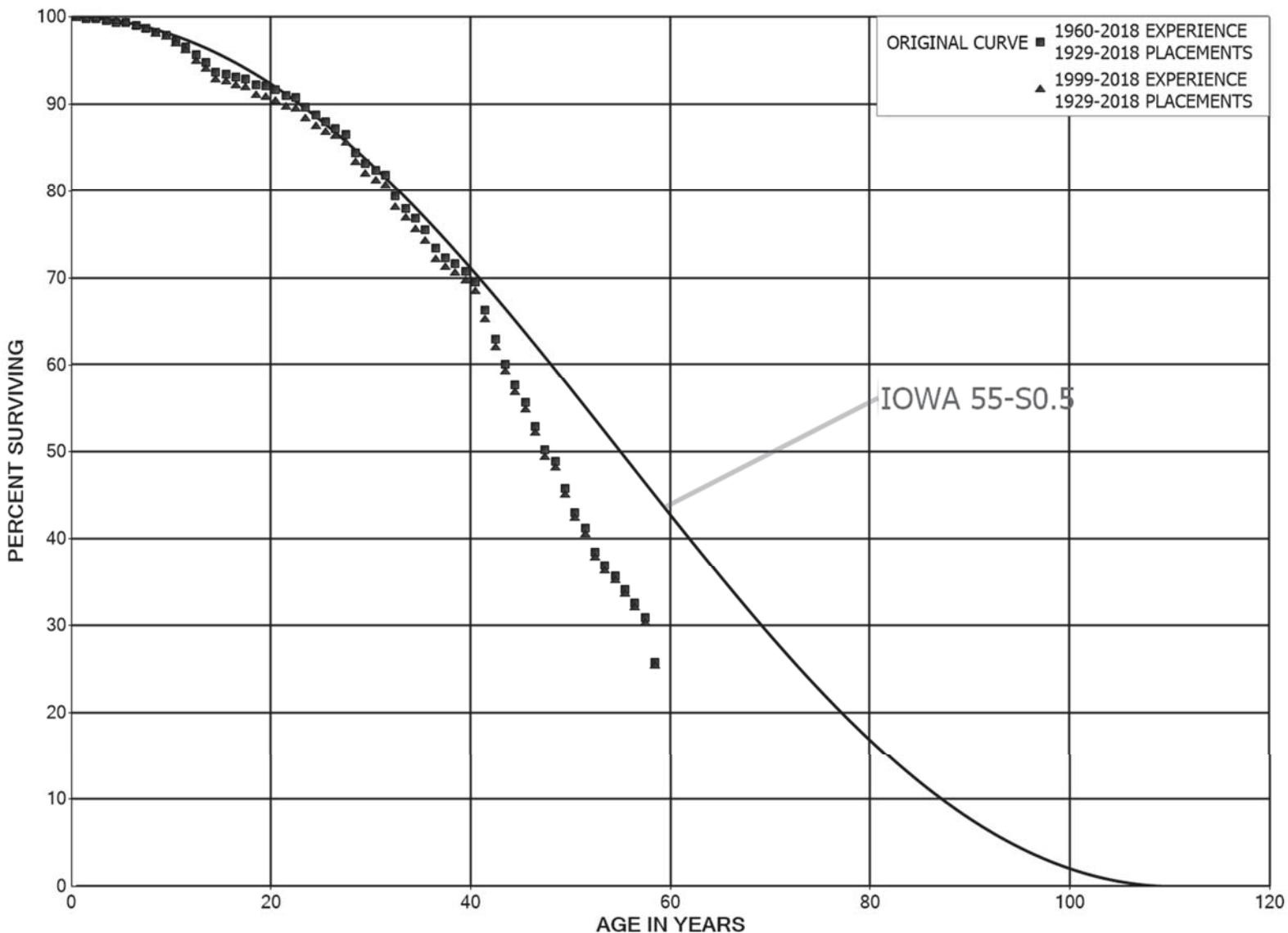
DUKE ENERGY CAROLINAS

ACCOUNTS 360 AND 360.2 RIGHTS OF WAY AND LAND RIGHTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1906-2017			EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL	
79.5	31,963	0	0.0000	1.0000	95.73	
80.5	32,846		0.0000	1.0000	95.73	
81.5	32,846		0.0000	1.0000	95.73	
82.5	32,958	7	0.0002	0.9998	95.73	
83.5	30,457	2	0.0001	0.9999	95.71	
84.5	29,877	6	0.0002	0.9998	95.70	
85.5	27,892	23	0.0008	0.9992	95.68	
86.5	20,006	2	0.0001	0.9999	95.61	
87.5	19,274	31	0.0016	0.9984	95.60	
88.5	9,172	3	0.0003	0.9997	95.44	
89.5	8,262		0.0000	1.0000	95.41	
90.5	8,262	0	0.0000	1.0000	95.41	
91.5	8,150		0.0000	1.0000	95.41	
92.5	8,150		0.0000	1.0000	95.41	
93.5	8,150		0.0000	1.0000	95.41	
94.5	8,150		0.0000	1.0000	95.41	
95.5	8,150		0.0000	1.0000	95.41	
96.5	8,150		0.0000	1.0000	95.41	
97.5	8,150		0.0000	1.0000	95.41	
98.5	8,150		0.0000	1.0000	95.41	
99.5	8,150		0.0000	1.0000	95.41	
100.5	8,150		0.0000	1.0000	95.41	
101.5	8,150		0.0000	1.0000	95.41	
102.5	8,150		0.0000	1.0000	95.41	
103.5	8,150		0.0000	1.0000	95.41	
104.5	8,150		0.0000	1.0000	95.41	
105.5	8,150		0.0000	1.0000	95.41	
106.5	8,150		0.0000	1.0000	95.41	
107.5	8,150		0.0000	1.0000	95.41	
108.5	8,150		0.0000	1.0000	95.41	
109.5	8,150		0.0000	1.0000	95.41	
110.5	8,150		0.0000	1.0000	95.41	
111.5	8,150	48	0.0059	0.9941	95.41	
112.5					94.84	

DUKE ENERGY CAROLINAS
ACCOUNT 361 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1929-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	116,843,350	13,969	0.0001	0.9999	100.00
0.5	108,062,989	273,918	0.0025	0.9975	99.99
1.5	97,306,715	47,200	0.0005	0.9995	99.73
2.5	88,737,614	154,459	0.0017	0.9983	99.69
3.5	78,979,757	153,775	0.0019	0.9981	99.51
4.5	70,605,716	62,582	0.0009	0.9991	99.32
5.5	58,075,905	193,250	0.0033	0.9967	99.23
6.5	48,640,401	166,641	0.0034	0.9966	98.90
7.5	43,588,317	171,233	0.0039	0.9961	98.56
8.5	40,297,522	138,887	0.0034	0.9966	98.17
9.5	39,421,684	250,758	0.0064	0.9936	97.84
10.5	34,986,438	256,341	0.0073	0.9927	97.21
11.5	30,668,842	299,039	0.0098	0.9902	96.50
12.5	26,500,250	219,889	0.0083	0.9917	95.56
13.5	22,821,355	280,591	0.0123	0.9877	94.77
14.5	21,220,638	44,623	0.0021	0.9979	93.60
15.5	20,334,568	75,642	0.0037	0.9963	93.41
16.5	18,190,237	36,968	0.0020	0.9980	93.06
17.5	18,096,161	132,548	0.0073	0.9927	92.87
18.5	17,819,065	26,878	0.0015	0.9985	92.19
19.5	17,708,992	75,697	0.0043	0.9957	92.05
20.5	17,351,094	143,009	0.0082	0.9918	91.66
21.5	16,830,770	36,666	0.0022	0.9978	90.90
22.5	16,318,754	190,945	0.0117	0.9883	90.70
23.5	15,953,787	154,159	0.0097	0.9903	89.64
24.5	14,621,006	139,188	0.0095	0.9905	88.78
25.5	13,997,905	115,119	0.0082	0.9918	87.93
26.5	12,917,907	109,935	0.0085	0.9915	87.21
27.5	12,321,485	291,778	0.0237	0.9763	86.47
28.5	10,797,613	158,406	0.0147	0.9853	84.42
29.5	9,484,811	87,222	0.0092	0.9908	83.18
30.5	8,536,134	55,508	0.0065	0.9935	82.41
31.5	8,464,809	253,073	0.0299	0.9701	81.88
32.5	7,741,807	141,234	0.0182	0.9818	79.43
33.5	7,087,007	103,469	0.0146	0.9854	77.98
34.5	6,600,580	113,078	0.0171	0.9829	76.84
35.5	6,067,358	169,680	0.0280	0.9720	75.53
36.5	5,622,770	82,324	0.0146	0.9854	73.41
37.5	4,913,102	48,785	0.0099	0.9901	72.34
38.5	4,394,427	56,915	0.0130	0.9870	71.62

DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1929-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,635,466	61,607	0.0169	0.9831	70.69
40.5	3,354,183	155,198	0.0463	0.9537	69.50
41.5	3,137,842	158,910	0.0506	0.9494	66.28
42.5	2,607,914	116,593	0.0447	0.9553	62.92
43.5	2,347,487	96,926	0.0413	0.9587	60.11
44.5	2,017,635	71,994	0.0357	0.9643	57.63
45.5	1,882,936	91,132	0.0484	0.9516	55.57
46.5	1,651,727	85,307	0.0516	0.9484	52.88
47.5	1,425,889	37,909	0.0266	0.9734	50.15
48.5	1,296,778	81,663	0.0630	0.9370	48.82
49.5	1,106,823	67,127	0.0606	0.9394	45.74
50.5	913,755	39,238	0.0429	0.9571	42.97
51.5	789,118	53,326	0.0676	0.9324	41.12
52.5	625,367	25,368	0.0406	0.9594	38.35
53.5	572,027	17,523	0.0306	0.9694	36.79
54.5	510,703	22,224	0.0435	0.9565	35.66
55.5	434,056	20,210	0.0466	0.9534	34.11
56.5	354,148	18,792	0.0531	0.9469	32.52
57.5	311,183	50,859	0.1634	0.8366	30.80
58.5	3,410		0.0000	1.0000	25.76
59.5	3,410		0.0000	1.0000	25.76
60.5	3,410		0.0000	1.0000	25.76
61.5	3,410		0.0000	1.0000	25.76
62.5	3,410		0.0000	1.0000	25.76
63.5	3,410		0.0000	1.0000	25.76
64.5	3,410		0.0000	1.0000	25.76
65.5	3,410		0.0000	1.0000	25.76
66.5	3,410		0.0000	1.0000	25.76
67.5	3,410	67	0.0196	0.9804	25.76
68.5	2,817		0.0000	1.0000	25.26
69.5	2,817		0.0000	1.0000	25.26
70.5	2,817		0.0000	1.0000	25.26
71.5	2,817		0.0000	1.0000	25.26
72.5	2,817		0.0000	1.0000	25.26
73.5	2,817		0.0000	1.0000	25.26
74.5	2,817		0.0000	1.0000	25.26
75.5	2,817		0.0000	1.0000	25.26
76.5	2,817		0.0000	1.0000	25.26
77.5	2,817		0.0000	1.0000	25.26
78.5	2,817		0.0000	1.0000	25.26

DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1929-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,817		0.0000	1.0000	25.26
80.5	2,817		0.0000	1.0000	25.26
81.5	2,817		0.0000	1.0000	25.26
82.5	2,817		0.0000	1.0000	25.26
83.5	2,817		0.0000	1.0000	25.26
84.5	2,817		0.0000	1.0000	25.26
85.5	2,817		0.0000	1.0000	25.26
86.5	2,817		0.0000	1.0000	25.26
87.5	2,817		0.0000	1.0000	25.26
88.5	2,817	1,280	0.4545	0.5455	25.26
89.5					13.78

DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1929-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	99,944,524	10,155	0.0001	0.9999	100.00
0.5	91,626,100	247,062	0.0027	0.9973	99.99
1.5	81,387,859	11,440	0.0001	0.9999	99.72
2.5	73,402,888	134,326	0.0018	0.9982	99.71
3.5	63,819,026	111,795	0.0018	0.9982	99.52
4.5	56,564,182	31,378	0.0006	0.9994	99.35
5.5	44,783,738	189,305	0.0042	0.9958	99.29
6.5	36,379,766	126,016	0.0035	0.9965	98.87
7.5	31,915,271	170,840	0.0054	0.9946	98.53
8.5	30,038,343	116,453	0.0039	0.9961	98.00
9.5	30,405,846	250,758	0.0082	0.9918	97.62
10.5	26,820,038	223,713	0.0083	0.9917	96.82
11.5	22,655,029	288,413	0.0127	0.9873	96.01
12.5	19,134,585	160,070	0.0084	0.9916	94.79
13.5	16,137,792	216,381	0.0134	0.9866	94.00
14.5	14,979,897	39,908	0.0027	0.9973	92.74
15.5	14,617,845	65,257	0.0045	0.9955	92.49
16.5	12,881,909	35,439	0.0028	0.9972	92.08
17.5	13,518,456	129,823	0.0096	0.9904	91.82
18.5	13,710,888	25,295	0.0018	0.9982	90.94
19.5	14,315,044	68,753	0.0048	0.9952	90.77
20.5	14,161,098	114,165	0.0081	0.9919	90.34
21.5	13,717,356	33,745	0.0025	0.9975	89.61
22.5	13,720,504	171,999	0.0125	0.9875	89.39
23.5	13,644,555	137,713	0.0101	0.9899	88.27
24.5	12,581,666	94,924	0.0075	0.9925	87.38
25.5	12,088,342	67,125	0.0056	0.9944	86.72
26.5	11,278,824	99,865	0.0089	0.9911	86.24
27.5	10,834,452	277,547	0.0256	0.9744	85.47
28.5	9,441,862	150,399	0.0159	0.9841	83.28
29.5	8,241,452	80,557	0.0098	0.9902	81.96
30.5	7,468,562	47,339	0.0063	0.9937	81.16
31.5	7,395,950	239,185	0.0323	0.9677	80.64
32.5	6,825,455	109,263	0.0160	0.9840	78.03
33.5	6,306,686	101,500	0.0161	0.9839	76.78
34.5	5,882,425	106,850	0.0182	0.9818	75.55
35.5	5,434,330	156,113	0.0287	0.9713	74.18
36.5	5,093,626	58,592	0.0115	0.9885	72.05
37.5	4,448,389	45,895	0.0103	0.9897	71.22
38.5	4,391,017	56,915	0.0130	0.9870	70.48

DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1929-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	3,632,056	61,607	0.0170	0.9830	69.57
40.5	3,350,773	155,198	0.0463	0.9537	68.39
41.5	3,134,432	158,910	0.0507	0.9493	65.22
42.5	2,604,504	116,593	0.0448	0.9552	61.91
43.5	2,344,077	96,926	0.0413	0.9587	59.14
44.5	2,014,225	71,994	0.0357	0.9643	56.70
45.5	1,879,526	91,132	0.0485	0.9515	54.67
46.5	1,648,317	85,307	0.0518	0.9482	52.02
47.5	1,422,479	37,909	0.0266	0.9734	49.33
48.5	1,293,961	81,663	0.0631	0.9369	48.01
49.5	1,104,006	67,127	0.0608	0.9392	44.98
50.5	910,938	39,238	0.0431	0.9569	42.25
51.5	786,301	53,326	0.0678	0.9322	40.43
52.5	622,550	25,368	0.0407	0.9593	37.69
53.5	569,210	17,523	0.0308	0.9692	36.15
54.5	507,886	22,224	0.0438	0.9562	35.04
55.5	431,239	20,210	0.0469	0.9531	33.50
56.5	351,331	18,792	0.0535	0.9465	31.93
57.5	308,366	50,859	0.1649	0.8351	30.23
58.5	593		0.0000	1.0000	25.24
59.5	593		0.0000	1.0000	25.24
60.5	593		0.0000	1.0000	25.24
61.5	593		0.0000	1.0000	25.24
62.5	593		0.0000	1.0000	25.24
63.5	593		0.0000	1.0000	25.24
64.5	593		0.0000	1.0000	25.24
65.5	593		0.0000	1.0000	25.24
66.5	593		0.0000	1.0000	25.24
67.5	593	67	0.1124	0.8876	25.24
68.5					22.40
69.5	2,817		0.0000		
70.5	2,817		0.0000		
71.5	2,817		0.0000		
72.5	2,817		0.0000		
73.5	2,817		0.0000		
74.5	2,817		0.0000		
75.5	2,817		0.0000		
76.5	2,817		0.0000		
77.5	2,817		0.0000		
78.5	2,817		0.0000		

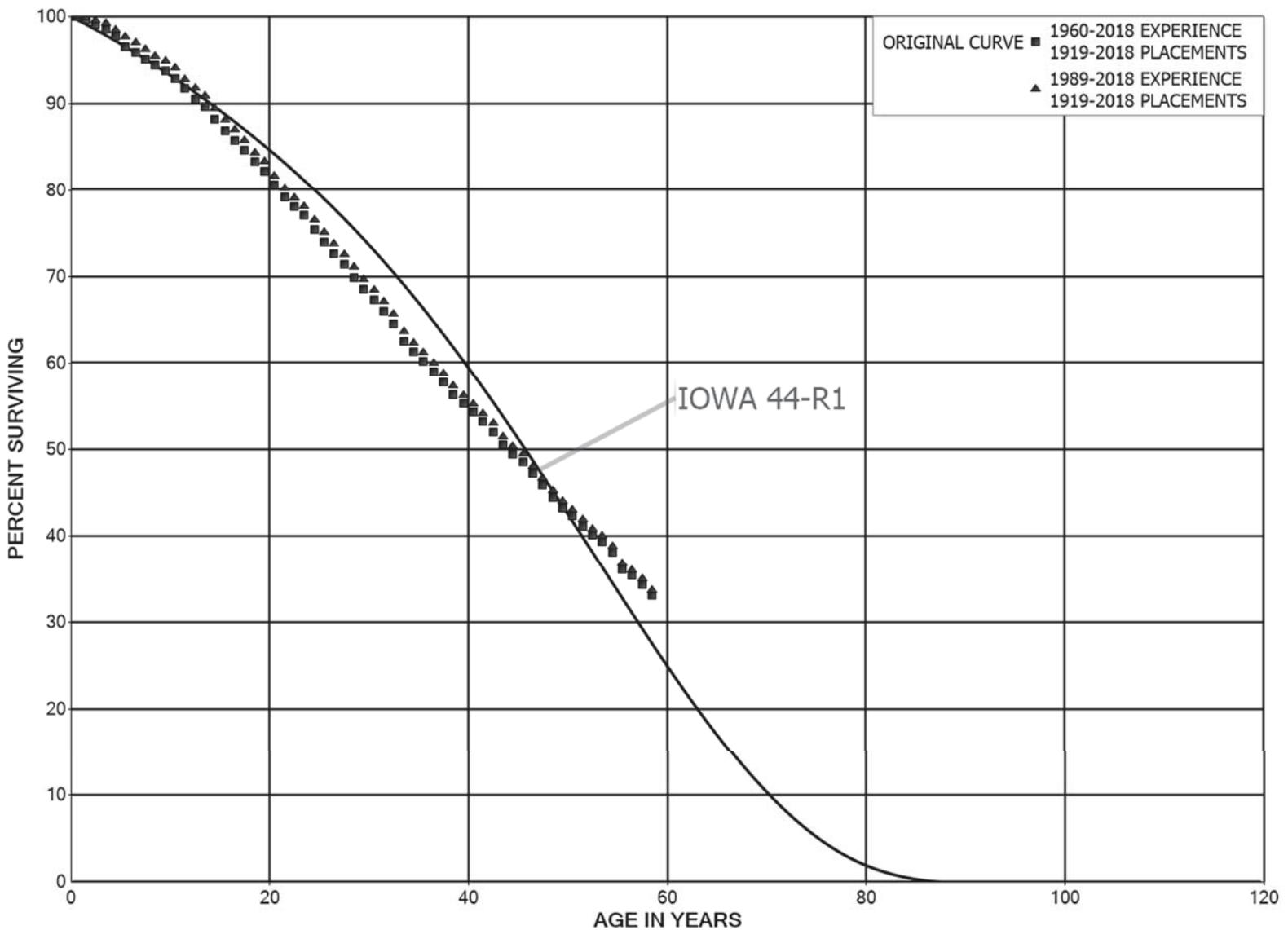
DUKE ENERGY CAROLINAS

ACCOUNT 361 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1929-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	2,817		0.0000		
80.5	2,817		0.0000		
81.5	2,817		0.0000		
82.5	2,817		0.0000		
83.5	2,817		0.0000		
84.5	2,817		0.0000		
85.5	2,817		0.0000		
86.5	2,817		0.0000		
87.5	2,817		0.0000		
88.5	2,817	1,280	0.4545		
89.5					

DUKE ENERGY CAROLINAS
ACCOUNT 362 STATION EQUIPMENT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,565,529,261	568,668	0.0004	0.9996	100.00
0.5	1,426,040,623	4,433,991	0.0031	0.9969	99.96
1.5	1,324,157,291	7,102,689	0.0054	0.9946	99.65
2.5	1,238,346,869	7,104,307	0.0057	0.9943	99.12
3.5	1,166,104,753	9,909,644	0.0085	0.9915	98.55
4.5	1,110,294,921	13,253,929	0.0119	0.9881	97.71
5.5	1,050,556,843	7,897,922	0.0075	0.9925	96.55
6.5	985,887,011	7,887,532	0.0080	0.9920	95.82
7.5	940,796,706	6,867,192	0.0073	0.9927	95.05
8.5	901,288,846	6,419,568	0.0071	0.9929	94.36
9.5	850,496,621	7,528,801	0.0089	0.9911	93.69
10.5	772,228,506	9,259,611	0.0120	0.9880	92.86
11.5	719,450,919	9,542,859	0.0133	0.9867	91.74
12.5	650,034,808	6,859,589	0.0106	0.9894	90.53
13.5	598,527,627	9,413,021	0.0157	0.9843	89.57
14.5	564,662,822	8,380,595	0.0148	0.9852	88.16
15.5	532,393,370	6,637,015	0.0125	0.9875	86.86
16.5	484,869,169	6,449,378	0.0133	0.9867	85.77
17.5	454,754,665	7,514,355	0.0165	0.9835	84.63
18.5	422,282,547	5,420,823	0.0128	0.9872	83.23
19.5	410,957,733	7,981,600	0.0194	0.9806	82.16
20.5	392,956,643	6,781,250	0.0173	0.9827	80.57
21.5	382,034,696	5,503,610	0.0144	0.9856	79.18
22.5	366,905,941	4,759,440	0.0130	0.9870	78.04
23.5	359,955,588	7,509,461	0.0209	0.9791	77.03
24.5	345,664,997	6,497,356	0.0188	0.9812	75.42
25.5	328,736,167	6,133,810	0.0187	0.9813	74.00
26.5	307,100,361	5,092,118	0.0166	0.9834	72.62
27.5	290,511,127	6,336,401	0.0218	0.9782	71.42
28.5	262,147,080	5,283,736	0.0202	0.9798	69.86
29.5	241,169,695	4,258,820	0.0177	0.9823	68.45
30.5	223,546,263	4,324,091	0.0193	0.9807	67.24
31.5	210,851,588	4,734,536	0.0225	0.9775	65.94
32.5	193,895,547	5,968,542	0.0308	0.9692	64.46
33.5	179,931,720	3,558,061	0.0198	0.9802	62.48
34.5	170,778,162	2,952,555	0.0173	0.9827	61.24
35.5	164,604,239	3,468,227	0.0211	0.9789	60.18
36.5	156,338,749	3,043,602	0.0195	0.9805	58.91
37.5	151,109,156	3,753,077	0.0248	0.9752	57.77
38.5	144,221,464	2,762,131	0.0192	0.9808	56.33

DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	140,347,054	2,498,030	0.0178	0.9822	55.25
40.5	140,072,067	2,964,949	0.0212	0.9788	54.27
41.5	136,119,704	2,885,079	0.0212	0.9788	53.12
42.5	127,675,306	3,555,485	0.0278	0.9722	52.00
43.5	114,210,590	2,583,961	0.0226	0.9774	50.55
44.5	100,534,799	1,753,567	0.0174	0.9826	49.40
45.5	91,561,018	2,643,866	0.0289	0.9711	48.54
46.5	74,519,465	2,041,569	0.0274	0.9726	47.14
47.5	64,968,391	2,018,356	0.0311	0.9689	45.85
48.5	55,463,276	1,562,793	0.0282	0.9718	44.42
49.5	46,839,399	988,313	0.0211	0.9789	43.17
50.5	38,134,701	1,056,402	0.0277	0.9723	42.26
51.5	31,139,424	803,063	0.0258	0.9742	41.09
52.5	26,254,686	481,569	0.0183	0.9817	40.03
53.5	21,010,424	637,625	0.0303	0.9697	39.30
54.5	18,317,274	981,741	0.0536	0.9464	38.10
55.5	14,587,882	282,772	0.0194	0.9806	36.06
56.5	12,971,887	377,980	0.0291	0.9709	35.36
57.5	11,056,335	419,931	0.0380	0.9620	34.33
58.5	148,225	13	0.0001	0.9999	33.03
59.5	143,955	51	0.0004	0.9996	33.03
60.5	127,776	120	0.0009	0.9991	33.01
61.5	89,802	16	0.0002	0.9998	32.98
62.5	84,804	17	0.0002	0.9998	32.98
63.5	79,492	27	0.0003	0.9997	32.97
64.5	71,307	1	0.0000	1.0000	32.96
65.5	71,005	16,281	0.2293	0.7707	32.96
66.5	49,323	1,110	0.0225	0.9775	25.40
67.5	48,214	10	0.0002	0.9998	24.83
68.5	51,129	19	0.0004	0.9996	24.82
69.5	45,532	18	0.0004	0.9996	24.82
70.5	40,316	1	0.0000	1.0000	24.81
71.5	40,166	2	0.0001	0.9999	24.81
72.5	39,509	7	0.0002	0.9998	24.80
73.5	37,547	0.0000	1.0000	24.80	
74.5	37,547	12	0.0003	0.9997	24.80
75.5	34,174	73	0.0021	0.9979	24.79
76.5	14,631	5	0.0003	0.9997	24.74
77.5	13,365	2	0.0001	0.9999	24.73
78.5	12,950	1	0.0001	0.9999	24.73

DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	12,733	1	0.0001	0.9999	24.73
80.5	12,483		0.0000	1.0000	24.72
81.5	12,483	1	0.0000	1.0000	24.72
82.5	12,356	3	0.0002	0.9998	24.72
83.5	11,734	1,316	0.1122	0.8878	24.72
84.5	9,334	3	0.0003	0.9997	21.95
85.5	8,581	73	0.0085	0.9915	21.94
86.5	6,659		0.0000	1.0000	21.75
87.5	6,659	4	0.0006	0.9994	21.75
88.5	5,652		0.0000	1.0000	21.74
89.5	5,652		0.0000	1.0000	21.74
90.5	5,652		0.0000	1.0000	21.74
91.5	5,652	240	0.0425	0.9575	21.74
92.5					20.81

DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,244,636,442	292,359	0.0002	0.9998	100.00
0.5	1,122,301,780	1,629,062	0.0015	0.9985	99.98
1.5	1,036,031,545	3,157,381	0.0030	0.9970	99.83
2.5	969,756,926	3,925,668	0.0040	0.9960	99.53
3.5	919,038,950	6,258,027	0.0068	0.9932	99.12
4.5	877,490,659	7,187,331	0.0082	0.9918	98.45
5.5	834,239,566	5,702,810	0.0068	0.9932	97.64
6.5	782,099,732	6,625,692	0.0085	0.9915	96.98
7.5	745,085,700	5,814,492	0.0078	0.9922	96.15
8.5	713,052,129	4,615,296	0.0065	0.9935	95.40
9.5	672,746,323	5,268,835	0.0078	0.9922	94.79
10.5	601,569,594	8,459,150	0.0141	0.9859	94.04
11.5	555,559,221	5,989,638	0.0108	0.9892	92.72
12.5	499,836,969	5,003,181	0.0100	0.9900	91.72
13.5	466,520,926	7,467,820	0.0160	0.9840	90.80
14.5	448,381,290	6,609,559	0.0147	0.9853	89.35
15.5	426,604,320	5,434,640	0.0127	0.9873	88.03
16.5	398,114,449	5,352,725	0.0134	0.9866	86.91
17.5	378,059,483	6,278,290	0.0166	0.9834	85.74
18.5	354,852,711	4,420,762	0.0125	0.9875	84.32
19.5	356,313,158	7,014,307	0.0197	0.9803	83.27
20.5	348,013,240	6,050,205	0.0174	0.9826	81.63
21.5	344,352,302	4,947,586	0.0144	0.9856	80.21
22.5	333,884,898	4,271,726	0.0128	0.9872	79.06
23.5	332,434,156	6,750,723	0.0203	0.9797	78.05
24.5	321,462,636	5,928,338	0.0184	0.9816	76.46
25.5	307,791,141	5,420,563	0.0176	0.9824	75.05
26.5	289,069,568	4,840,314	0.0167	0.9833	73.73
27.5	274,150,914	5,354,381	0.0195	0.9805	72.49
28.5	262,001,174	5,283,736	0.0202	0.9798	71.08
29.5	241,027,052	4,258,820	0.0177	0.9823	69.65
30.5	223,418,487	4,324,091	0.0194	0.9806	68.42
31.5	210,761,786	4,734,536	0.0225	0.9775	67.09
32.5	193,810,743	5,968,542	0.0308	0.9692	65.58
33.5	179,852,228	3,558,061	0.0198	0.9802	63.56
34.5	170,706,855	2,952,555	0.0173	0.9827	62.31
35.5	164,533,234	3,468,227	0.0211	0.9789	61.23
36.5	156,273,163	3,043,602	0.0195	0.9805	59.94
37.5	151,043,570	3,753,077	0.0248	0.9752	58.77
38.5	144,158,614	2,762,131	0.0192	0.9808	57.31

DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	140,290,911	2,498,030	0.0178	0.9822	56.21
40.5	140,021,140	2,964,949	0.0212	0.9788	55.21
41.5	136,068,927	2,885,079	0.0212	0.9788	54.04
42.5	127,625,186	3,555,485	0.0279	0.9721	52.90
43.5	114,162,432	2,583,961	0.0226	0.9774	51.42
44.5	100,486,641	1,753,567	0.0175	0.9825	50.26
45.5	91,516,233	2,643,866	0.0289	0.9711	49.38
46.5	74,510,486	2,041,569	0.0274	0.9726	47.96
47.5	64,960,678	2,018,356	0.0311	0.9689	46.64
48.5	55,455,978	1,562,793	0.0282	0.9718	45.19
49.5	46,832,318	988,313	0.0211	0.9789	43.92
50.5	38,127,870	1,056,402	0.0277	0.9723	42.99
51.5	31,132,593	803,063	0.0258	0.9742	41.80
52.5	26,247,982	481,569	0.0183	0.9817	40.72
53.5	21,004,342	637,625	0.0304	0.9696	39.98
54.5	18,312,280	981,741	0.0536	0.9464	38.76
55.5	14,583,641	282,772	0.0194	0.9806	36.68
56.5	12,969,568	377,980	0.0291	0.9709	35.97
57.5	11,054,016	419,931	0.0380	0.9620	34.92
58.5	146,913	13	0.0001	0.9999	33.60
59.5	143,955	51	0.0004	0.9996	33.59
60.5	127,776	120	0.0009	0.9991	33.58
61.5	89,802	16	0.0002	0.9998	33.55
62.5	84,804	17	0.0002	0.9998	33.55
63.5	79,492	27	0.0003	0.9997	33.54
64.5	71,307	1	0.0000	1.0000	33.53
65.5	71,005	16,281	0.2293	0.7707	33.53
66.5	49,323	1,110	0.0225	0.9775	25.84
67.5	48,214	10	0.0002	0.9998	25.26
68.5	51,129	19	0.0004	0.9996	25.25
69.5	45,532	18	0.0004	0.9996	25.24
70.5	40,316	1	0.0000	1.0000	25.23
71.5	40,166	2	0.0001	0.9999	25.23
72.5	39,509	7	0.0002	0.9998	25.23
73.5	37,547	0.0000	1.0000	25.23	
74.5	37,547	12	0.0003	0.9997	25.23
75.5	34,174	73	0.0021	0.9979	25.22
76.5	14,631	5	0.0003	0.9997	25.16
77.5	13,365	2	0.0001	0.9999	25.16
78.5	12,950	1	0.0001	0.9999	25.15

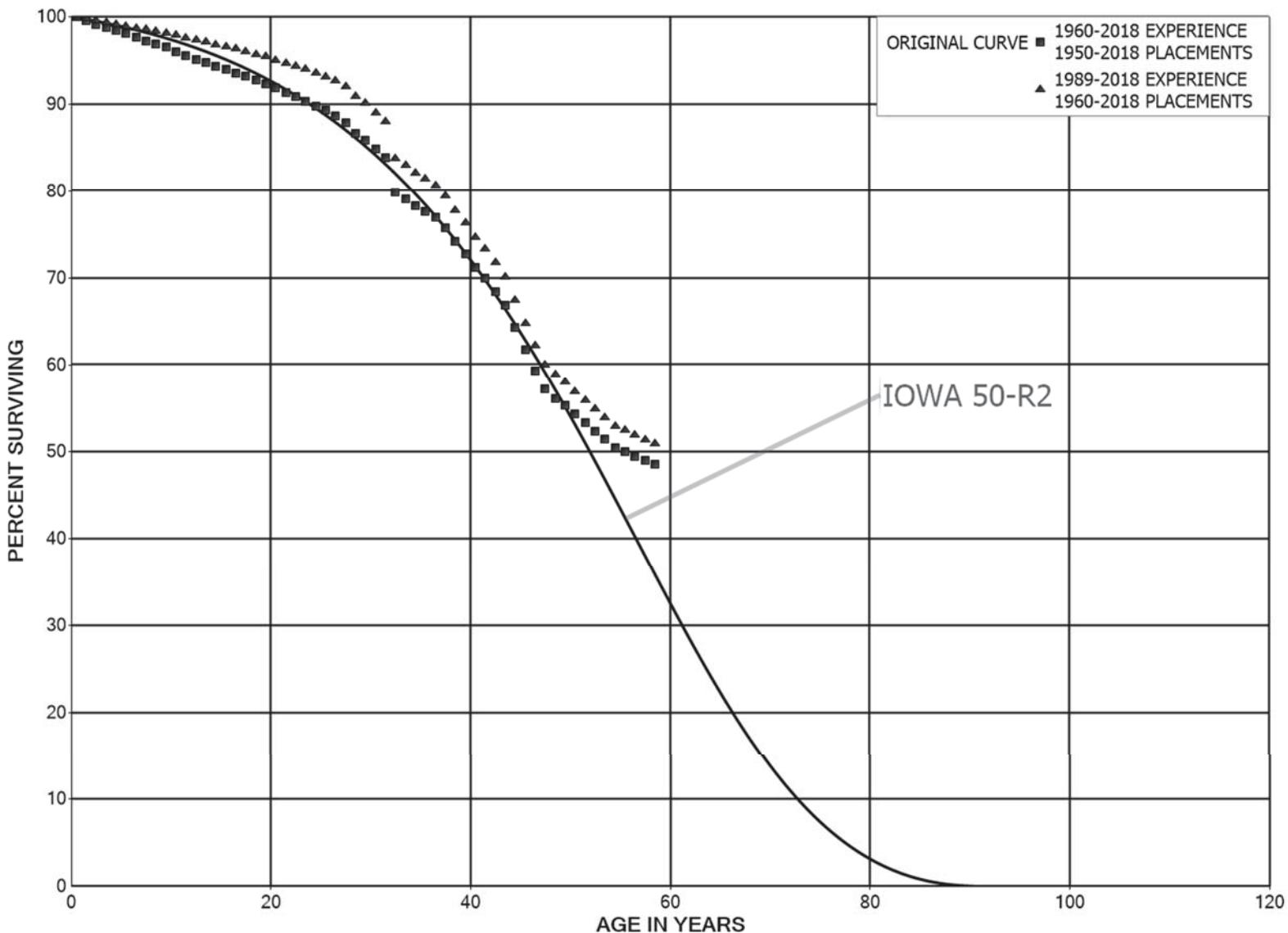
DUKE ENERGY CAROLINAS

ACCOUNT 362 STATION EQUIPMENT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	12,733	1	0.0001	0.9999	25.15
80.5	12,483		0.0000	1.0000	25.15
81.5	12,483	1	0.0000	1.0000	25.15
82.5	12,356	3	0.0002	0.9998	25.15
83.5	11,734	1,316	0.1122	0.8878	25.14
84.5	9,334	3	0.0003	0.9997	22.32
85.5	8,581	73	0.0085	0.9915	22.32
86.5	6,659		0.0000	1.0000	22.13
87.5	6,659	4	0.0006	0.9994	22.13
88.5	5,652		0.0000	1.0000	22.11
89.5	5,652		0.0000	1.0000	22.11
90.5	5,652		0.0000	1.0000	22.11
91.5	5,652	240	0.0425	0.9575	22.11
92.5					21.17

DUKE ENERGY CAROLINAS
ACCOUNT 364 POLES, TOWERS AND FIXTURES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1950-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,823,110,466	1,250,460	0.0007	0.9993	100.00
0.5	1,546,906,966	6,221,612	0.0040	0.9960	99.93
1.5	1,533,041,206	6,402,414	0.0042	0.9958	99.53
2.5	1,525,853,047	5,803,279	0.0038	0.9962	99.11
3.5	1,498,953,103	4,799,039	0.0032	0.9968	98.74
4.5	1,417,534,383	5,912,970	0.0042	0.9958	98.42
5.5	1,377,640,929	5,146,082	0.0037	0.9963	98.01
6.5	1,345,057,146	5,819,276	0.0043	0.9957	97.64
7.5	1,291,511,438	4,919,661	0.0038	0.9962	97.22
8.5	1,262,443,273	4,259,350	0.0034	0.9966	96.85
9.5	1,223,594,944	6,684,499	0.0055	0.9945	96.52
10.5	1,173,863,984	5,687,252	0.0048	0.9952	96.00
11.5	1,126,669,124	5,072,491	0.0045	0.9955	95.53
12.5	1,078,592,679	4,419,225	0.0041	0.9959	95.10
13.5	1,029,405,914	4,834,313	0.0047	0.9953	94.71
14.5	984,896,227	3,418,008	0.0035	0.9965	94.27
15.5	956,843,154	4,072,088	0.0043	0.9957	93.94
16.5	930,218,260	3,887,514	0.0042	0.9958	93.54
17.5	897,039,777	4,575,246	0.0051	0.9949	93.15
18.5	829,120,798	3,510,997	0.0042	0.9958	92.67
19.5	806,260,598	4,369,473	0.0054	0.9946	92.28
20.5	783,543,849	4,407,600	0.0056	0.9944	91.78
21.5	760,149,900	3,889,108	0.0051	0.9949	91.27
22.5	734,907,517	3,957,174	0.0054	0.9946	90.80
23.5	709,898,062	4,179,458	0.0059	0.9941	90.31
24.5	683,558,229	3,957,920	0.0058	0.9942	89.78
25.5	640,472,692	4,339,014	0.0068	0.9932	89.26
26.5	598,314,905	5,337,102	0.0089	0.9911	88.65
27.5	544,365,642	7,654,307	0.0141	0.9859	87.86
28.5	466,982,761	4,042,190	0.0087	0.9913	86.63
29.5	414,728,198	4,853,178	0.0117	0.9883	85.88
30.5	364,410,620	4,279,974	0.0117	0.9883	84.87
31.5	324,745,133	15,458,394	0.0476	0.9524	83.88
32.5	276,318,737	2,700,287	0.0098	0.9902	79.88
33.5	246,964,472	2,526,485	0.0102	0.9898	79.10
34.5	217,945,855	1,775,909	0.0081	0.9919	78.29
35.5	193,044,578	1,831,611	0.0095	0.9905	77.66
36.5	172,074,869	2,724,151	0.0158	0.9842	76.92
37.5	152,629,445	3,176,475	0.0208	0.9792	75.70
38.5	135,462,961	2,505,107	0.0185	0.9815	74.13

DUKE ENERGY CAROLINAS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1950-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	118,372,736	2,555,437	0.0216	0.9784	72.75
40.5	105,682,245	1,829,575	0.0173	0.9827	71.18
41.5	92,290,068	2,046,608	0.0222	0.9778	69.95
42.5	81,659,233	1,839,323	0.0225	0.9775	68.40
43.5	75,055,346	2,906,312	0.0387	0.9613	66.86
44.5	60,338,420	2,359,487	0.0391	0.9609	64.27
45.5	49,771,891	2,006,319	0.0403	0.9597	61.76
46.5	40,292,365	1,447,836	0.0359	0.9641	59.27
47.5	31,409,372	585,179	0.0186	0.9814	57.14
48.5	27,478,326	409,181	0.0149	0.9851	56.07
49.5	22,387,887	402,742	0.0180	0.9820	55.24
50.5	20,187,851	371,578	0.0184	0.9816	54.25
51.5	16,546,551	308,425	0.0186	0.9814	53.25
52.5	13,252,362	216,489	0.0163	0.9837	52.25
53.5	11,492,194	215,831	0.0188	0.9812	51.40
54.5	8,737,233	78,195	0.0089	0.9911	50.44
55.5	6,698,203	79,559	0.0119	0.9881	49.98
56.5	5,538,954	49,792	0.0090	0.9910	49.39
57.5	4,940,355	46,420	0.0094	0.9906	48.95
58.5					48.49

DUKE ENERGY CAROLINAS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,311,783,748	1,085,244	0.0008	0.9992	100.00
0.5	1,084,304,586	1,648,573	0.0015	0.9985	99.92
1.5	1,113,705,979	2,726,481	0.0024	0.9976	99.77
2.5	1,146,481,034	3,053,668	0.0027	0.9973	99.52
3.5	1,152,799,578	2,412,623	0.0021	0.9979	99.26
4.5	1,103,135,213	2,424,864	0.0022	0.9978	99.05
5.5	1,092,605,835	1,975,870	0.0018	0.9982	98.83
6.5	1,087,493,713	2,189,703	0.0020	0.9980	98.65
7.5	1,057,695,657	2,053,428	0.0019	0.9981	98.45
8.5	1,050,113,834	2,209,276	0.0021	0.9979	98.26
9.5	1,029,867,329	2,640,507	0.0026	0.9974	98.06
10.5	996,268,226	2,790,257	0.0028	0.9972	97.80
11.5	966,093,498	2,523,027	0.0026	0.9974	97.53
12.5	931,299,852	2,434,915	0.0026	0.9974	97.28
13.5	892,223,130	2,447,165	0.0027	0.9973	97.02
14.5	866,621,380	1,997,630	0.0023	0.9977	96.75
15.5	851,193,818	2,374,885	0.0028	0.9972	96.53
16.5	835,504,484	2,434,739	0.0029	0.9971	96.26
17.5	813,456,357	3,033,296	0.0037	0.9963	95.98
18.5	753,299,775	1,973,007	0.0026	0.9974	95.62
19.5	738,019,863	2,822,190	0.0038	0.9962	95.37
20.5	719,584,617	2,948,943	0.0041	0.9959	95.01
21.5	702,217,442	2,643,981	0.0038	0.9962	94.62
22.5	682,557,910	2,665,293	0.0039	0.9961	94.26
23.5	661,885,289	3,031,915	0.0046	0.9954	93.90
24.5	641,010,067	2,936,798	0.0046	0.9954	93.47
25.5	602,749,273	3,043,767	0.0050	0.9950	93.04
26.5	565,225,115	3,851,178	0.0068	0.9932	92.57
27.5	515,667,887	6,253,004	0.0121	0.9879	91.94
28.5	466,982,761	4,042,190	0.0087	0.9913	90.82
29.5	414,728,198	4,853,178	0.0117	0.9883	90.04
30.5	364,410,620	4,279,974	0.0117	0.9883	88.98
31.5	324,745,133	15,458,394	0.0476	0.9524	87.94
32.5	276,318,737	2,700,287	0.0098	0.9902	83.75
33.5	246,964,472	2,526,485	0.0102	0.9898	82.93
34.5	217,945,855	1,775,909	0.0081	0.9919	82.08
35.5	193,044,578	1,831,611	0.0095	0.9905	81.42
36.5	172,074,869	2,724,151	0.0158	0.9842	80.64
37.5	152,629,445	3,176,475	0.0208	0.9792	79.37
38.5	135,462,961	2,505,107	0.0185	0.9815	77.71

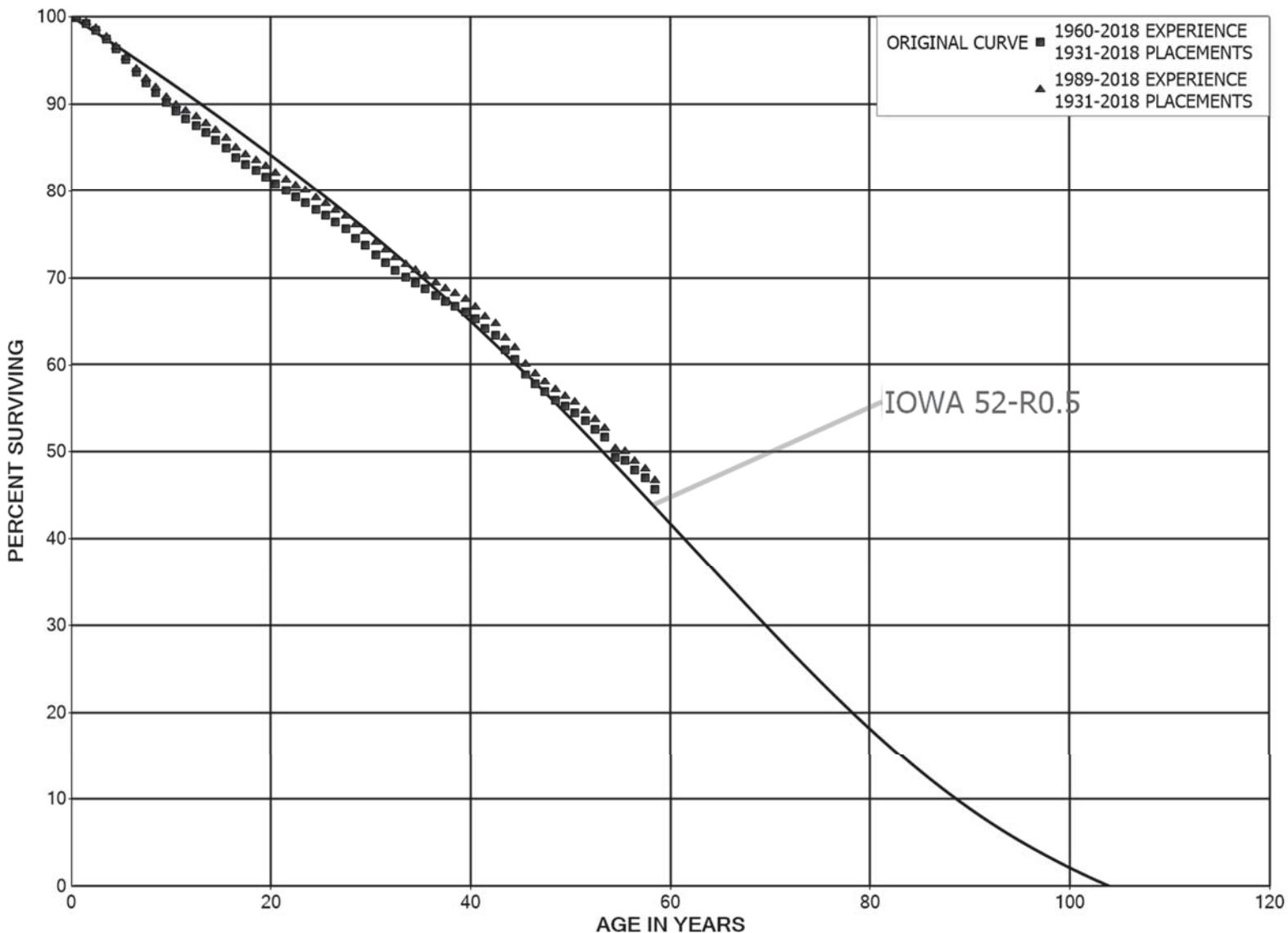
DUKE ENERGY CAROLINAS

ACCOUNT 364 POLES, TOWERS AND FIXTURES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	118,372,736	2,555,437	0.0216	0.9784	76.28
40.5	105,682,245	1,829,575	0.0173	0.9827	74.63
41.5	92,290,068	2,046,608	0.0222	0.9778	73.34
42.5	81,659,233	1,839,323	0.0225	0.9775	71.71
43.5	75,055,346	2,906,312	0.0387	0.9613	70.10
44.5	60,338,420	2,359,487	0.0391	0.9609	67.38
45.5	49,771,891	2,006,319	0.0403	0.9597	64.75
46.5	40,292,365	1,447,836	0.0359	0.9641	62.14
47.5	31,409,372	585,179	0.0186	0.9814	59.90
48.5	27,478,326	409,181	0.0149	0.9851	58.79
49.5	22,387,887	402,742	0.0180	0.9820	57.91
50.5	20,187,851	371,578	0.0184	0.9816	56.87
51.5	16,546,551	308,425	0.0186	0.9814	55.82
52.5	13,252,362	216,489	0.0163	0.9837	54.78
53.5	11,492,194	215,831	0.0188	0.9812	53.89
54.5	8,737,233	78,195	0.0089	0.9911	52.88
55.5	6,698,203	79,559	0.0119	0.9881	52.40
56.5	5,538,954	49,792	0.0090	0.9910	51.78
57.5	4,940,355	46,420	0.0094	0.9906	51.32
58.5					50.83

DUKE ENERGY CAROLINAS
ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1931-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	2,661,257,772	4,089,345	0.0015	0.9985	100.00
0.5	2,253,533,623	14,597,494	0.0065	0.9935	99.85
1.5	2,213,249,455	16,729,341	0.0076	0.9924	99.20
2.5	2,205,544,149	22,709,792	0.0103	0.9897	98.45
3.5	2,142,703,362	25,062,126	0.0117	0.9883	97.44
4.5	2,032,784,193	26,621,173	0.0131	0.9869	96.30
5.5	1,907,623,473	28,904,765	0.0152	0.9848	95.04
6.5	1,803,496,491	23,507,066	0.0130	0.9870	93.60
7.5	1,699,924,236	20,278,465	0.0119	0.9881	92.38
8.5	1,639,686,902	19,507,834	0.0119	0.9881	91.27
9.5	1,561,810,273	18,064,147	0.0116	0.9884	90.19
10.5	1,472,620,301	13,871,574	0.0094	0.9906	89.14
11.5	1,399,908,471	12,763,523	0.0091	0.9909	88.30
12.5	1,315,927,154	12,018,240	0.0091	0.9909	87.50
13.5	1,223,900,603	11,568,257	0.0095	0.9905	86.70
14.5	1,143,070,009	12,111,088	0.0106	0.9894	85.88
15.5	1,072,125,604	14,087,826	0.0131	0.9869	84.97
16.5	981,556,064	9,257,694	0.0094	0.9906	83.85
17.5	878,038,123	7,470,488	0.0085	0.9915	83.06
18.5	781,219,301	6,960,295	0.0089	0.9911	82.36
19.5	719,850,987	7,073,037	0.0098	0.9902	81.62
20.5	659,194,570	6,263,273	0.0095	0.9905	80.82
21.5	594,222,306	5,468,897	0.0092	0.9908	80.05
22.5	540,585,071	4,477,036	0.0083	0.9917	79.32
23.5	498,262,951	5,321,675	0.0107	0.9893	78.66
24.5	461,659,597	3,874,924	0.0084	0.9916	77.82
25.5	433,972,255	4,616,263	0.0106	0.9894	77.17
26.5	404,548,384	3,930,149	0.0097	0.9903	76.35
27.5	368,287,610	5,201,334	0.0141	0.9859	75.60
28.5	314,921,211	3,507,214	0.0111	0.9889	74.54
29.5	280,367,824	4,198,377	0.0150	0.9850	73.71
30.5	246,736,748	3,038,072	0.0123	0.9877	72.60
31.5	224,329,179	2,804,339	0.0125	0.9875	71.71
32.5	203,039,311	2,167,593	0.0107	0.9893	70.81
33.5	185,819,980	1,727,847	0.0093	0.9907	70.06
34.5	168,155,532	1,580,559	0.0094	0.9906	69.40
35.5	152,052,643	1,745,328	0.0115	0.9885	68.75
36.5	138,048,261	1,309,773	0.0095	0.9905	67.96
37.5	126,034,475	1,060,959	0.0084	0.9916	67.32
38.5	118,742,194	1,170,233	0.0099	0.9901	66.75

DUKE ENERGY CAROLINAS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1931-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	107,473,144	1,349,156	0.0126	0.9874	66.09
40.5	100,048,536	1,685,235	0.0168	0.9832	65.26
41.5	90,666,757	1,060,224	0.0117	0.9883	64.16
42.5	84,285,515	2,225,747	0.0264	0.9736	63.41
43.5	79,202,871	1,388,457	0.0175	0.9825	61.74
44.5	67,089,652	1,994,327	0.0297	0.9703	60.66
45.5	56,965,380	1,082,377	0.0190	0.9810	58.85
46.5	50,518,242	797,762	0.0158	0.9842	57.74
47.5	43,243,973	718,760	0.0166	0.9834	56.82
48.5	39,514,325	495,868	0.0125	0.9875	55.88
49.5	34,742,838	462,267	0.0133	0.9867	55.18
50.5	32,336,883	534,274	0.0165	0.9835	54.44
51.5	28,408,083	534,205	0.0188	0.9812	53.54
52.5	25,022,384	463,938	0.0185	0.9815	52.54
53.5	23,393,743	1,037,296	0.0443	0.9557	51.56
54.5	19,621,626	136,740	0.0070	0.9930	49.28
55.5	16,920,848	368,280	0.0218	0.9782	48.93
56.5	14,160,086	272,584	0.0193	0.9807	47.87
57.5	11,608,911	325,520	0.0280	0.9720	46.95
58.5					45.63

DUKE ENERGY CAROLINAS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1931-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	2,235,715,062	3,925,958	0.0018	0.9982	100.00
0.5	1,867,583,446	9,831,769	0.0053	0.9947	99.82
1.5	1,859,219,916	12,320,813	0.0066	0.9934	99.30
2.5	1,882,712,650	18,796,852	0.0100	0.9900	98.64
3.5	1,848,461,034	21,865,137	0.0118	0.9882	97.66
4.5	1,764,407,583	22,348,990	0.0127	0.9873	96.50
5.5	1,662,223,764	24,117,953	0.0145	0.9855	95.28
6.5	1,578,860,187	18,104,056	0.0115	0.9885	93.90
7.5	1,495,558,061	16,506,608	0.0110	0.9890	92.82
8.5	1,452,647,485	16,517,320	0.0114	0.9886	91.79
9.5	1,391,171,660	13,455,046	0.0097	0.9903	90.75
10.5	1,315,659,217	10,167,833	0.0077	0.9923	89.87
11.5	1,257,172,559	9,347,379	0.0074	0.9926	89.18
12.5	1,184,284,967	10,039,572	0.0085	0.9915	88.52
13.5	1,100,550,857	9,874,840	0.0090	0.9910	87.77
14.5	1,035,077,691	10,815,778	0.0104	0.9896	86.98
15.5	975,379,206	12,787,892	0.0131	0.9869	86.07
16.5	893,853,166	8,012,228	0.0090	0.9910	84.94
17.5	801,838,509	6,384,564	0.0080	0.9920	84.18
18.5	712,597,798	5,865,395	0.0082	0.9918	83.51
19.5	658,117,281	5,941,269	0.0090	0.9910	82.82
20.5	601,936,311	5,391,823	0.0090	0.9910	82.07
21.5	542,879,382	4,577,322	0.0084	0.9916	81.34
22.5	494,620,183	3,822,431	0.0077	0.9923	80.65
23.5	455,665,841	4,779,788	0.0105	0.9895	80.03
24.5	423,947,809	3,778,052	0.0089	0.9911	79.19
25.5	400,454,282	3,831,175	0.0096	0.9904	78.48
26.5	375,584,793	3,322,258	0.0088	0.9912	77.73
27.5	343,682,912	4,317,832	0.0126	0.9874	77.05
28.5	314,921,211	3,507,214	0.0111	0.9889	76.08
29.5	280,367,824	4,198,377	0.0150	0.9850	75.23
30.5	246,736,748	3,038,072	0.0123	0.9877	74.10
31.5	224,329,179	2,804,339	0.0125	0.9875	73.19
32.5	203,039,311	2,167,593	0.0107	0.9893	72.28
33.5	185,819,980	1,727,847	0.0093	0.9907	71.51
34.5	168,155,532	1,580,559	0.0094	0.9906	70.84
35.5	152,052,643	1,745,328	0.0115	0.9885	70.17
36.5	138,048,261	1,309,773	0.0095	0.9905	69.37
37.5	126,034,475	1,060,959	0.0084	0.9916	68.71
38.5	118,742,194	1,170,233	0.0099	0.9901	68.13

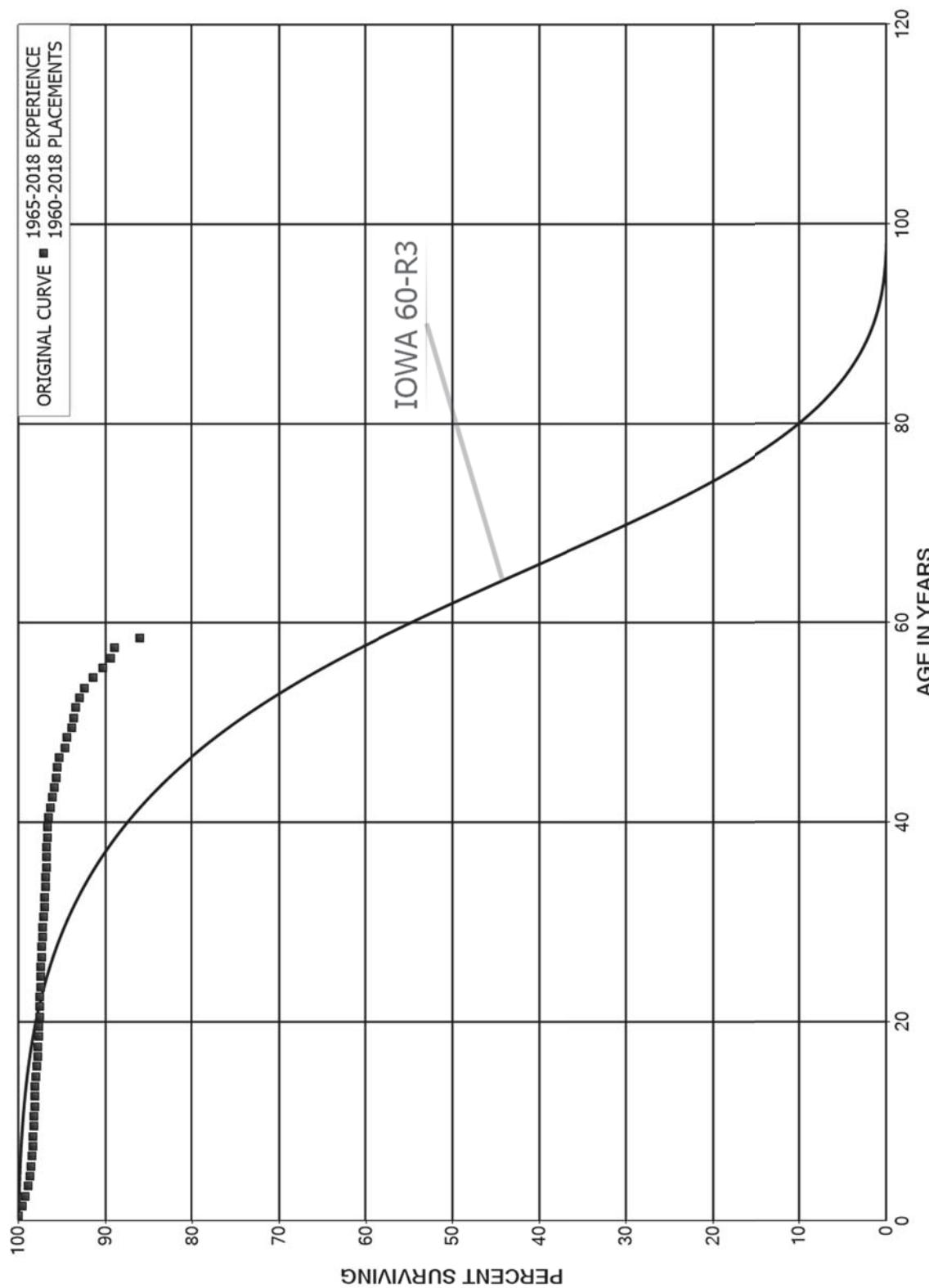
DUKE ENERGY CAROLINAS

ACCOUNT 365 OVERHEAD CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1931-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	107,473,144	1,349,156	0.0126	0.9874	67.46
40.5	100,048,536	1,685,235	0.0168	0.9832	66.61
41.5	90,666,757	1,060,224	0.0117	0.9883	65.49
42.5	84,285,515	2,225,747	0.0264	0.9736	64.73
43.5	79,202,871	1,388,457	0.0175	0.9825	63.02
44.5	67,089,652	1,994,327	0.0297	0.9703	61.91
45.5	56,965,380	1,082,377	0.0190	0.9810	60.07
46.5	50,518,242	797,762	0.0158	0.9842	58.93
47.5	43,243,973	718,760	0.0166	0.9834	58.00
48.5	39,514,325	495,868	0.0125	0.9875	57.04
49.5	34,742,838	462,267	0.0133	0.9867	56.32
50.5	32,336,883	534,274	0.0165	0.9835	55.57
51.5	28,408,083	534,205	0.0188	0.9812	54.65
52.5	25,022,384	463,938	0.0185	0.9815	53.62
53.5	23,393,743	1,037,296	0.0443	0.9557	52.63
54.5	19,621,626	136,740	0.0070	0.9930	50.30
55.5	16,920,848	368,280	0.0218	0.9782	49.95
56.5	14,160,086	272,584	0.0193	0.9807	48.86
57.5	11,608,911	325,520	0.0280	0.9720	47.92
58.5					46.58

DUKE ENERGY CAROLINAS
ACCOUNT 366 UNDERGROUND CONDUIT
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1965-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	242,197,773	53,262	0.0002	0.9998	100.00
0.5	225,938,782	1,035,553	0.0046	0.9954	99.98
1.5	217,217,789	768,911	0.0035	0.9965	99.52
2.5	209,990,087	791,794	0.0038	0.9962	99.17
3.5	200,824,262	307,976	0.0015	0.9985	98.79
4.5	193,441,084	267,856	0.0014	0.9986	98.64
5.5	187,914,580	157,412	0.0008	0.9992	98.51
6.5	183,214,552	164,748	0.0009	0.9991	98.42
7.5	177,986,964	111,001	0.0006	0.9994	98.33
8.5	175,749,252	103,382	0.0006	0.9994	98.27
9.5	167,961,001	92,011	0.0005	0.9995	98.22
10.5	162,832,285	87,897	0.0005	0.9995	98.16
11.5	157,631,164	55,504	0.0004	0.9996	98.11
12.5	154,683,203	98,675	0.0006	0.9994	98.07
13.5	151,087,826	104,760	0.0007	0.9993	98.01
14.5	148,508,145	238,610	0.0016	0.9984	97.94
15.5	146,115,673	80,782	0.0006	0.9994	97.79
16.5	143,640,400	83,463	0.0006	0.9994	97.73
17.5	139,982,345	69,899	0.0005	0.9995	97.68
18.5	135,751,136	67,515	0.0005	0.9995	97.63
19.5	132,851,099	69,816	0.0005	0.9995	97.58
20.5	129,667,072	38,893	0.0003	0.9997	97.53
21.5	127,354,949	51,293	0.0004	0.9996	97.50
22.5	125,911,842	21,033	0.0002	0.9998	97.46
23.5	124,089,362	47,505	0.0004	0.9996	97.44
24.5	121,360,519	55,112	0.0005	0.9995	97.40
25.5	115,272,485	44,927	0.0004	0.9996	97.36
26.5	106,673,882	47,175	0.0004	0.9996	97.32
27.5	94,352,839	54,685	0.0006	0.9994	97.28
28.5	74,039,048	44,421	0.0006	0.9994	97.22
29.5	59,659,740	55,764	0.0009	0.9991	97.16
30.5	45,534,692	32,857	0.0007	0.9993	97.07
31.5	36,278,789	23,956	0.0007	0.9993	97.00
32.5	30,280,122	17,936	0.0006	0.9994	96.94
33.5	26,580,746	16,213	0.0006	0.9994	96.88
34.5	23,768,893	10,992	0.0005	0.9995	96.82
35.5	22,536,642	10,420	0.0005	0.9995	96.78
36.5	21,580,997	10,176	0.0005	0.9995	96.73
37.5	20,605,103	11,792	0.0006	0.9994	96.69
38.5	19,673,319	10,229	0.0005	0.9995	96.63

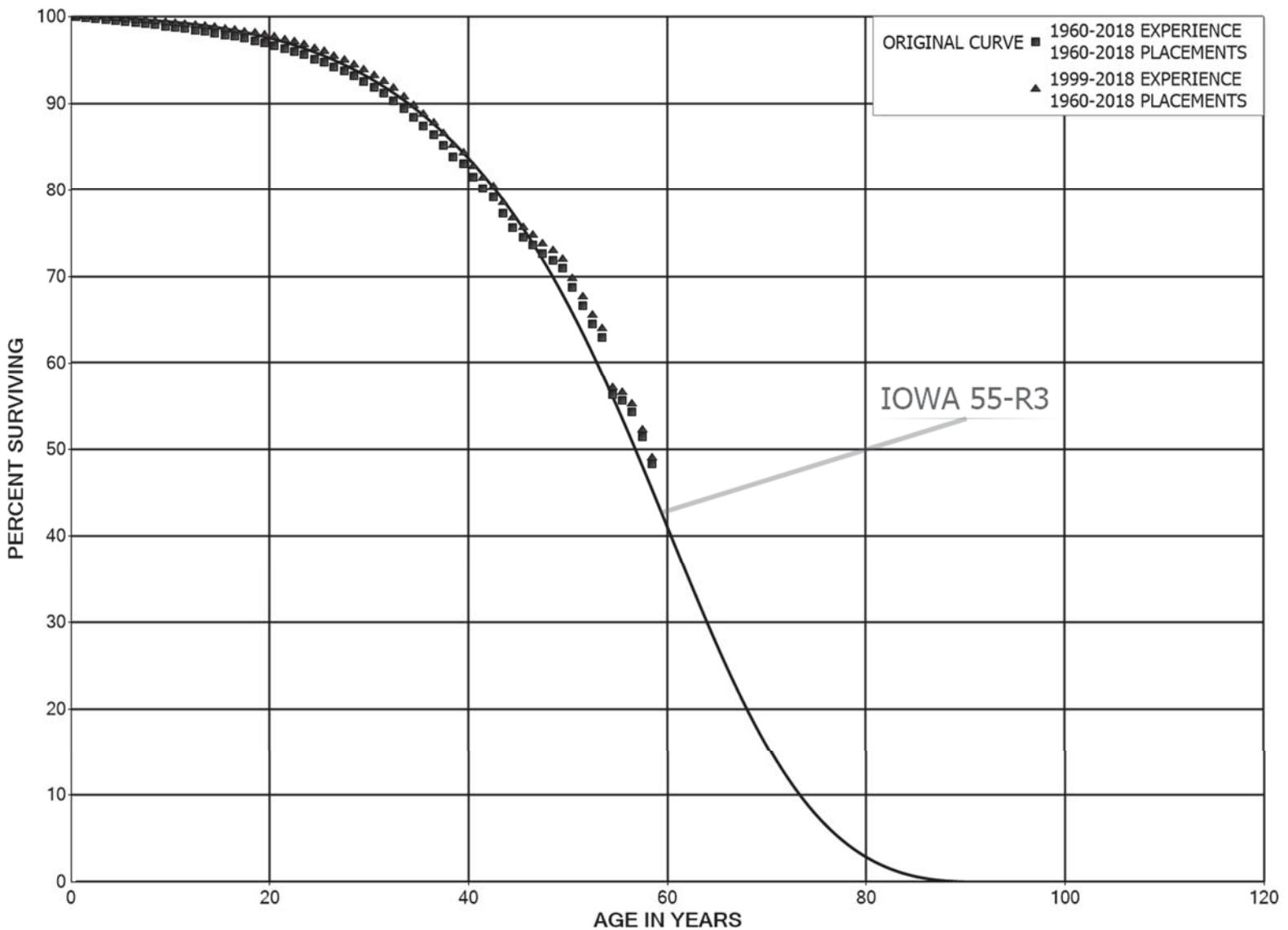
DUKE ENERGY CAROLINAS

ACCOUNT 366 UNDERGROUND CONDUIT

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1965-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	18,879,890	15,847	0.0008	0.9992	96.58
40.5	18,271,151	35,224	0.0019	0.9981	96.50
41.5	16,525,723	41,016	0.0025	0.9975	96.32
42.5	15,847,685	45,487	0.0029	0.9971	96.08
43.5	15,417,138	23,435	0.0015	0.9985	95.80
44.5	15,274,305	17,334	0.0011	0.9989	95.65
45.5	14,653,367	35,979	0.0025	0.9975	95.55
46.5	14,344,690	97,567	0.0068	0.9932	95.31
47.5	13,700,775	34,236	0.0025	0.9975	94.66
48.5	13,018,832	74,493	0.0057	0.9943	94.43
49.5	1,546,189	5,176	0.0033	0.9967	93.89
50.5	1,402,327	2,823	0.0020	0.9980	93.57
51.5	1,273,737	6,122	0.0048	0.9952	93.38
52.5	720,603	4,311	0.0060	0.9940	92.94
53.5	601,055	6,053	0.0101	0.9899	92.38
54.5	524,052	6,660	0.0127	0.9873	91.45
55.5	488,764	4,849	0.0099	0.9901	90.29
56.5	412,323	1,836	0.0045	0.9955	89.39
57.5	377,589	12,402	0.0328	0.9672	88.99
58.5					86.07

DUKE ENERGY CAROLINAS
ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	2,104,452,219	569,332	0.0003	0.9997	100.00
0.5	1,850,177,520	2,958,938	0.0016	0.9984	99.97
1.5	1,799,935,145	2,264,713	0.0013	0.9987	99.81
2.5	1,786,819,898	2,059,986	0.0012	0.9988	99.69
3.5	1,764,482,803	1,394,860	0.0008	0.9992	99.57
4.5	1,727,906,009	1,610,927	0.0009	0.9991	99.49
5.5	1,673,762,783	2,018,867	0.0012	0.9988	99.40
6.5	1,640,583,544	2,224,402	0.0014	0.9986	99.28
7.5	1,610,591,944	2,108,537	0.0013	0.9987	99.15
8.5	1,583,389,316	2,118,039	0.0013	0.9987	99.02
9.5	1,539,254,283	2,209,752	0.0014	0.9986	98.88
10.5	1,425,641,101	2,083,302	0.0015	0.9985	98.74
11.5	1,286,623,915	2,010,713	0.0016	0.9984	98.60
12.5	1,187,372,928	1,925,471	0.0016	0.9984	98.44
13.5	1,093,680,710	2,199,215	0.0020	0.9980	98.28
14.5	1,026,758,555	2,146,399	0.0021	0.9979	98.09
15.5	973,922,209	1,748,130	0.0018	0.9982	97.88
16.5	914,872,848	2,099,349	0.0023	0.9977	97.71
17.5	838,118,961	2,348,231	0.0028	0.9972	97.48
18.5	752,871,460	2,215,460	0.0029	0.9971	97.21
19.5	704,559,233	1,914,183	0.0027	0.9973	96.92
20.5	647,576,684	2,258,992	0.0035	0.9965	96.66
21.5	609,612,753	2,354,114	0.0039	0.9961	96.32
22.5	574,380,688	2,247,197	0.0039	0.9961	95.95
23.5	536,467,663	2,611,796	0.0049	0.9951	95.57
24.5	499,448,551	2,194,904	0.0044	0.9956	95.11
25.5	448,430,420	2,353,064	0.0052	0.9948	94.69
26.5	391,861,217	2,011,965	0.0051	0.9949	94.19
27.5	324,302,352	1,907,919	0.0059	0.9941	93.71
28.5	267,467,364	1,799,688	0.0067	0.9933	93.16
29.5	227,018,714	1,630,726	0.0072	0.9928	92.53
30.5	178,590,487	1,327,925	0.0074	0.9926	91.87
31.5	150,882,530	1,398,267	0.0093	0.9907	91.19
32.5	123,571,898	1,243,063	0.0101	0.9899	90.34
33.5	106,167,915	1,236,643	0.0116	0.9884	89.43
34.5	90,880,573	980,504	0.0108	0.9892	88.39
35.5	77,767,329	891,824	0.0115	0.9885	87.44
36.5	65,409,923	917,245	0.0140	0.9860	86.43
37.5	54,566,642	859,095	0.0157	0.9843	85.22
38.5	44,668,923	444,166	0.0099	0.9901	83.88

DUKE ENERGY CAROLINAS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	36,347,958	657,013	0.0181	0.9819	83.05
40.5	31,639,143	541,332	0.0171	0.9829	81.54
41.5	26,100,268	301,918	0.0116	0.9884	80.15
42.5	22,274,497	534,595	0.0240	0.9760	79.22
43.5	20,476,385	460,974	0.0225	0.9775	77.32
44.5	15,121,990	213,692	0.0141	0.9859	75.58
45.5	11,841,505	149,045	0.0126	0.9874	74.51
46.5	11,139,881	150,647	0.0135	0.9865	73.57
47.5	8,718,304	90,988	0.0104	0.9896	72.58
48.5	7,108,903	90,654	0.0128	0.9872	71.82
49.5	888,041	27,799	0.0313	0.9687	70.91
50.5	650,568	19,202	0.0295	0.9705	68.69
51.5	458,992	14,496	0.0316	0.9684	66.66
52.5	167,503	4,071	0.0243	0.9757	64.55
53.5	133,465	14,297	0.1071	0.8929	62.98
54.5	72,540	776	0.0107	0.9893	56.24
55.5	62,543	1,493	0.0239	0.9761	55.64
56.5	52,815	2,818	0.0534	0.9466	54.31
57.5	49,997	3,070	0.0614	0.9386	51.41
58.5					48.25

DUKE ENERGY CAROLINAS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1999-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	1,387,199,438	295,983	0.0002	0.9998	100.00
0.5	1,199,375,150	879,241	0.0007	0.9993	99.98
1.5	1,187,900,548	1,131,793	0.0010	0.9990	99.91
2.5	1,208,211,735	899,305	0.0007	0.9993	99.81
3.5	1,222,008,464	608,525	0.0005	0.9995	99.74
4.5	1,219,723,396	782,195	0.0006	0.9994	99.69
5.5	1,215,058,186	1,018,251	0.0008	0.9992	99.62
6.5	1,236,683,809	968,218	0.0008	0.9992	99.54
7.5	1,274,436,545	1,096,205	0.0009	0.9991	99.46
8.5	1,304,315,661	1,231,782	0.0009	0.9991	99.38
9.5	1,298,814,722	1,322,397	0.0010	0.9990	99.28
10.5	1,234,171,355	1,236,054	0.0010	0.9990	99.18
11.5	1,123,258,921	1,276,087	0.0011	0.9989	99.08
12.5	1,051,899,103	1,306,680	0.0012	0.9988	98.97
13.5	976,009,815	1,571,302	0.0016	0.9984	98.85
14.5	924,382,313	1,445,537	0.0016	0.9984	98.69
15.5	885,111,624	1,272,634	0.0014	0.9986	98.53
16.5	838,747,764	1,419,932	0.0017	0.9983	98.39
17.5	773,291,305	1,562,329	0.0020	0.9980	98.22
18.5	698,937,806	1,581,847	0.0023	0.9977	98.03
19.5	659,863,700	1,505,919	0.0023	0.9977	97.80
20.5	607,463,355	1,647,935	0.0027	0.9973	97.58
21.5	575,614,298	1,622,447	0.0028	0.9972	97.32
22.5	545,083,245	1,940,793	0.0036	0.9964	97.04
23.5	509,230,906	2,212,837	0.0043	0.9957	96.70
24.5	479,108,014	1,918,941	0.0040	0.9960	96.28
25.5	431,961,399	2,116,907	0.0049	0.9951	95.89
26.5	376,893,031	1,823,062	0.0048	0.9952	95.42
27.5	312,276,719	1,687,742	0.0054	0.9946	94.96
28.5	257,815,943	1,527,009	0.0059	0.9941	94.45
29.5	224,491,632	1,570,793	0.0070	0.9930	93.89
30.5	176,736,615	1,300,328	0.0074	0.9926	93.23
31.5	149,531,370	1,390,689	0.0093	0.9907	92.54
32.5	122,931,274	1,232,026	0.0100	0.9900	91.68
33.5	105,660,067	1,226,416	0.0116	0.9884	90.76
34.5	90,499,998	980,489	0.0108	0.9892	89.71
35.5	77,440,528	881,797	0.0114	0.9886	88.74
36.5	65,186,178	911,269	0.0140	0.9860	87.73
37.5	54,348,898	855,171	0.0157	0.9843	86.50
38.5	44,668,923	444,166	0.0099	0.9901	85.14

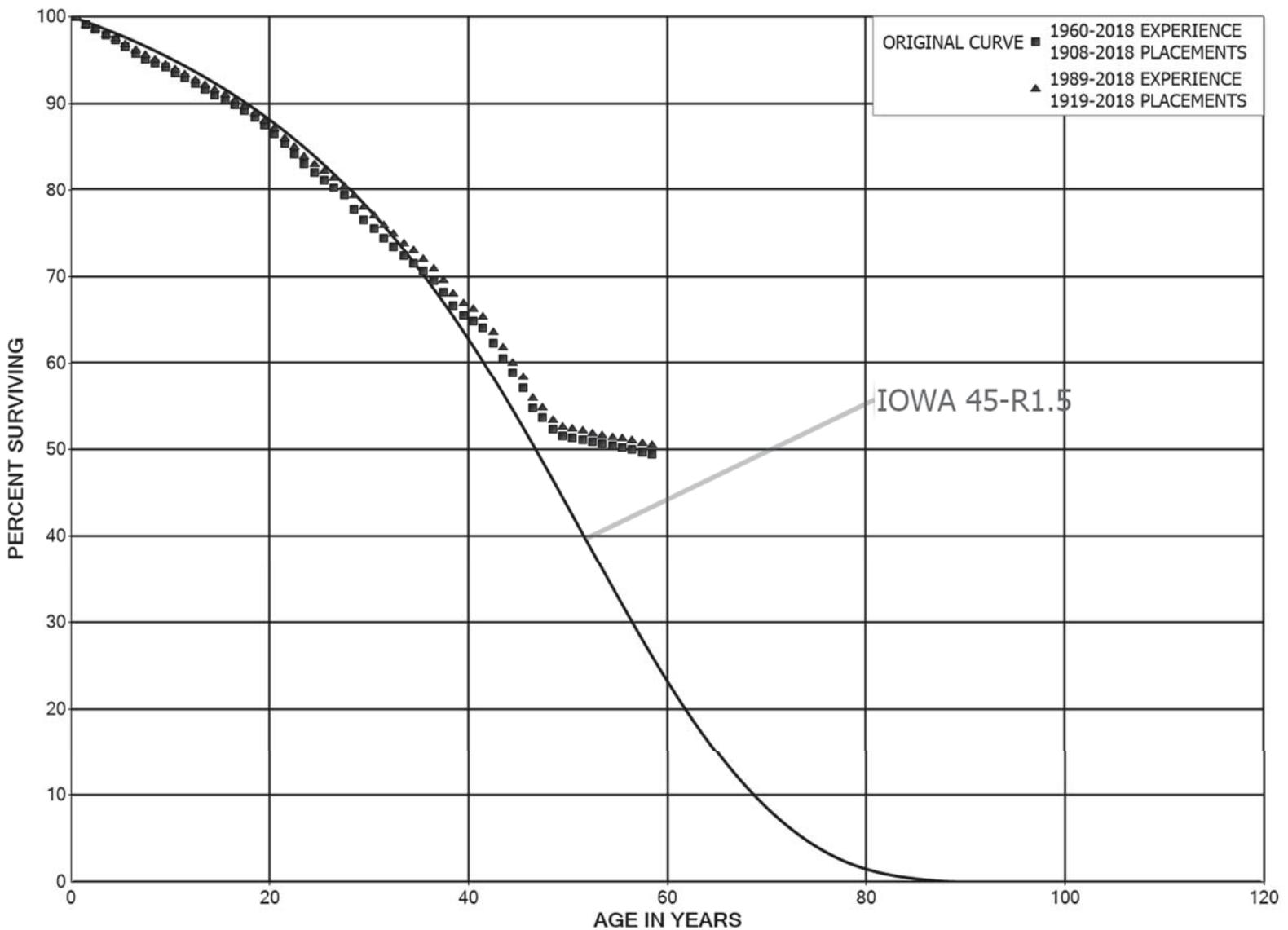
DUKE ENERGY CAROLINAS

ACCOUNT 367 UNDERGROUND CONDUCTORS AND DEVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	36,347,958	657,013	0.0181	0.9819	84.29
40.5	31,639,143	541,332	0.0171	0.9829	82.77
41.5	26,100,268	301,918	0.0116	0.9884	81.35
42.5	22,274,497	534,595	0.0240	0.9760	80.41
43.5	20,476,385	460,974	0.0225	0.9775	78.48
44.5	15,121,990	213,692	0.0141	0.9859	76.72
45.5	11,841,505	149,045	0.0126	0.9874	75.63
46.5	11,139,881	150,647	0.0135	0.9865	74.68
47.5	8,718,304	90,988	0.0104	0.9896	73.67
48.5	7,108,903	90,654	0.0128	0.9872	72.90
49.5	888,041	27,799	0.0313	0.9687	71.97
50.5	650,568	19,202	0.0295	0.9705	69.72
51.5	458,992	14,496	0.0316	0.9684	67.66
52.5	167,503	4,071	0.0243	0.9757	65.52
53.5	133,465	14,297	0.1071	0.8929	63.93
54.5	72,540	776	0.0107	0.9893	57.08
55.5	62,543	1,493	0.0239	0.9761	56.47
56.5	52,815	2,818	0.0534	0.9466	55.12
57.5	49,997	3,070	0.0614	0.9386	52.18
58.5					48.98

DUKE ENERGY CAROLINAS
ACCOUNT 368 LINE TRANSFORMERS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	2,005,021,791	1,852,183	0.0009	0.9991	100.00
0.5	1,731,532,413	14,646,938	0.0085	0.9915	99.91
1.5	1,725,657,294	9,734,331	0.0056	0.9944	99.06
2.5	1,715,077,698	11,750,177	0.0069	0.9931	98.50
3.5	1,709,894,782	9,582,062	0.0056	0.9944	97.83
4.5	1,659,267,703	12,925,071	0.0078	0.9922	97.28
5.5	1,619,626,322	12,759,213	0.0079	0.9921	96.52
6.5	1,595,498,952	10,958,080	0.0069	0.9931	95.76
7.5	1,508,564,161	7,476,563	0.0050	0.9950	95.10
8.5	1,474,638,680	7,969,138	0.0054	0.9946	94.63
9.5	1,428,030,095	9,074,462	0.0064	0.9936	94.12
10.5	1,353,858,002	8,341,918	0.0062	0.9938	93.52
11.5	1,288,429,831	9,543,414	0.0074	0.9926	92.95
12.5	1,222,053,239	8,014,229	0.0066	0.9934	92.26
13.5	1,166,092,129	8,471,640	0.0073	0.9927	91.65
14.5	1,117,911,613	7,192,906	0.0064	0.9936	90.99
15.5	1,069,842,665	6,865,292	0.0064	0.9936	90.40
16.5	1,028,465,200	7,624,992	0.0074	0.9926	89.82
17.5	977,418,865	8,308,500	0.0085	0.9915	89.16
18.5	923,041,151	9,486,098	0.0103	0.9897	88.40
19.5	879,589,857	9,784,019	0.0111	0.9889	87.49
20.5	827,621,318	10,952,885	0.0132	0.9868	86.52
21.5	787,804,584	10,680,053	0.0136	0.9864	85.37
22.5	748,244,295	10,304,532	0.0138	0.9862	84.21
23.5	704,527,484	8,671,969	0.0123	0.9877	83.06
24.5	666,450,811	7,253,732	0.0109	0.9891	82.03
25.5	617,502,446	6,348,208	0.0103	0.9897	81.14
26.5	580,010,904	6,677,414	0.0115	0.9885	80.31
27.5	536,282,912	10,971,275	0.0205	0.9795	79.38
28.5	482,619,760	7,965,099	0.0165	0.9835	77.76
29.5	422,800,556	5,522,028	0.0131	0.9869	76.47
30.5	348,750,128	5,044,017	0.0145	0.9855	75.48
31.5	324,147,992	4,425,218	0.0137	0.9863	74.38
32.5	283,573,116	3,966,456	0.0140	0.9860	73.37
33.5	251,061,916	2,875,660	0.0115	0.9885	72.34
34.5	217,933,508	2,763,520	0.0127	0.9873	71.51
35.5	194,019,653	3,069,078	0.0158	0.9842	70.61
36.5	177,138,293	3,356,637	0.0189	0.9811	69.49
37.5	157,369,047	3,627,063	0.0230	0.9770	68.17
38.5	140,495,263	2,217,446	0.0158	0.9842	66.60

DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	122,272,839	1,281,718	0.0105	0.9895	65.55
40.5	104,487,270	1,256,343	0.0120	0.9880	64.86
41.5	90,415,494	2,487,792	0.0275	0.9725	64.08
42.5	83,650,197	2,445,849	0.0292	0.9708	62.32
43.5	77,247,237	2,102,915	0.0272	0.9728	60.50
44.5	61,177,798	1,799,666	0.0294	0.9706	58.85
45.5	47,746,406	1,987,940	0.0416	0.9584	57.12
46.5	39,052,053	792,708	0.0203	0.9797	54.74
47.5	32,777,376	830,578	0.0253	0.9747	53.63
48.5	27,578,224	393,200	0.0143	0.9857	52.27
49.5	17,154,956	79,351	0.0046	0.9954	51.53
50.5	13,803,720	72,824	0.0053	0.9947	51.29
51.5	9,552,227	44,381	0.0046	0.9954	51.02
52.5	7,235,521	30,638	0.0042	0.9958	50.78
53.5	5,560,206	24,173	0.0043	0.9957	50.57
54.5	4,314,549	16,649	0.0039	0.9961	50.35
55.5	3,583,379	12,714	0.0035	0.9965	50.15
56.5	3,027,134	18,799	0.0062	0.9938	49.97
57.5	2,918,591	15,924	0.0055	0.9945	49.66
58.5	318,484	6,130	0.0192	0.9808	49.39
59.5	253,703	7,670	0.0302	0.9698	48.44
60.5	210,277	5,407	0.0257	0.9743	46.98
61.5	160,392	4,863	0.0303	0.9697	45.77
62.5	139,874	4,692	0.0335	0.9665	44.38
63.5	109,300	3,029	0.0277	0.9723	42.89
64.5	87,990	2,923	0.0332	0.9668	41.70
65.5	70,040	3,025	0.0432	0.9568	40.32
66.5	55,904	1,357	0.0243	0.9757	38.58
67.5	43,754	2,973	0.0680	0.9320	37.64
68.5	32,239	1,708	0.0530	0.9470	35.08
69.5	26,071	709	0.0272	0.9728	33.22
70.5	34,886	912	0.0262	0.9738	32.32
71.5	30,573	538	0.0176	0.9824	31.48
72.5	32,904	812	0.0247	0.9753	30.92
73.5	11,591	188	0.0162	0.9838	30.16
74.5	11,087	376	0.0339	0.9661	29.67
75.5	10,711	63	0.0059	0.9941	28.66
76.5	10,511	222	0.0212	0.9788	28.50
77.5	10,032	538	0.0536	0.9464	27.89
78.5	9,306	127	0.0136	0.9864	26.40

DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	8,881		0.0000	1.0000	26.04
80.5	8,881	2,695	0.3034	0.6966	26.04
81.5	6,186	127	0.0205	0.9795	18.14
82.5	6,060	651	0.1074	0.8926	17.76
83.5	5,337	2,898	0.5429	0.4571	15.86
84.5	2,426	630	0.2598	0.7402	7.25
85.5	1,695	1,428	0.8426	0.1574	5.37
86.5	213	33	0.1554	0.8446	0.84
87.5	133	50	0.3761	0.6239	0.71
88.5	50	7	0.1418	0.8582	0.44
89.5					0.38

DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1919-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1989-2018 PCT SURV BEGIN OF INTERVAL
0.0	1,356,104,802	1,602,046	0.0012	0.9988	100.00
0.5	1,134,750,799	10,447,347	0.0092	0.9908	99.88
1.5	1,165,427,838	5,423,129	0.0047	0.9953	98.96
2.5	1,200,615,709	8,003,533	0.0067	0.9933	98.50
3.5	1,239,060,987	6,369,632	0.0051	0.9949	97.85
4.5	1,234,055,986	8,256,930	0.0067	0.9933	97.34
5.5	1,225,347,180	7,309,715	0.0060	0.9940	96.69
6.5	1,226,949,689	7,534,626	0.0061	0.9939	96.11
7.5	1,163,130,540	6,739,065	0.0058	0.9942	95.52
8.5	1,147,636,146	6,862,195	0.0060	0.9940	94.97
9.5	1,121,981,049	7,250,860	0.0065	0.9935	94.40
10.5	1,065,367,985	6,074,958	0.0057	0.9943	93.79
11.5	1,016,724,305	6,806,535	0.0067	0.9933	93.26
12.5	958,418,544	5,757,776	0.0060	0.9940	92.63
13.5	910,192,994	6,127,638	0.0067	0.9933	92.08
14.5	892,626,249	5,460,542	0.0061	0.9939	91.46
15.5	869,055,973	5,590,908	0.0064	0.9936	90.90
16.5	847,427,136	6,242,295	0.0074	0.9926	90.31
17.5	813,719,876	7,022,804	0.0086	0.9914	89.65
18.5	776,322,131	8,155,353	0.0105	0.9895	88.87
19.5	752,646,239	7,935,141	0.0105	0.9895	87.94
20.5	716,180,201	8,880,540	0.0124	0.9876	87.01
21.5	692,026,201	8,247,430	0.0119	0.9881	85.93
22.5	666,490,451	8,392,057	0.0126	0.9874	84.91
23.5	633,846,409	6,283,006	0.0099	0.9901	83.84
24.5	605,179,900	6,138,094	0.0101	0.9899	83.01
25.5	563,699,107	5,526,303	0.0098	0.9902	82.17
26.5	532,566,955	6,093,675	0.0114	0.9886	81.36
27.5	494,162,155	7,094,286	0.0144	0.9856	80.43
28.5	482,619,760	7,965,099	0.0165	0.9835	79.28
29.5	422,800,556	5,522,028	0.0131	0.9869	77.97
30.5	348,750,128	5,044,017	0.0145	0.9855	76.95
31.5	324,147,992	4,425,218	0.0137	0.9863	75.84
32.5	283,573,116	3,966,456	0.0140	0.9860	74.80
33.5	251,061,916	2,875,660	0.0115	0.9885	73.76
34.5	217,933,508	2,763,520	0.0127	0.9873	72.91
35.5	194,019,653	3,069,078	0.0158	0.9842	71.99
36.5	177,138,293	3,356,637	0.0189	0.9811	70.85
37.5	157,369,047	3,627,063	0.0230	0.9770	69.50
38.5	140,495,263	2,217,446	0.0158	0.9842	67.90

DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	122,272,839	1,281,718	0.0105	0.9895	66.83
40.5	104,487,270	1,256,343	0.0120	0.9880	66.13
41.5	90,415,494	2,487,792	0.0275	0.9725	65.34
42.5	83,650,197	2,445,849	0.0292	0.9708	63.54
43.5	77,247,237	2,102,915	0.0272	0.9728	61.68
44.5	61,177,798	1,799,666	0.0294	0.9706	60.00
45.5	47,746,406	1,987,940	0.0416	0.9584	58.24
46.5	39,052,053	792,708	0.0203	0.9797	55.81
47.5	32,777,376	830,578	0.0253	0.9747	54.68
48.5	27,578,224	393,200	0.0143	0.9857	53.29
49.5	17,154,956	79,351	0.0046	0.9954	52.53
50.5	13,803,720	72,824	0.0053	0.9947	52.29
51.5	9,552,123	44,381	0.0046	0.9954	52.01
52.5	7,235,417	30,638	0.0042	0.9958	51.77
53.5	5,560,102	24,173	0.0043	0.9957	51.55
54.5	4,314,445	16,649	0.0039	0.9961	51.33
55.5	3,583,275	12,714	0.0035	0.9965	51.13
56.5	3,027,030	18,799	0.0062	0.9938	50.95
57.5	2,918,487	15,924	0.0055	0.9945	50.63
58.5	318,380	6,130	0.0193	0.9807	50.36
59.5	253,599	7,670	0.0302	0.9698	49.39
60.5	210,173	5,407	0.0257	0.9743	47.89
61.5	160,288	4,863	0.0303	0.9697	46.66
62.5	139,770	4,692	0.0336	0.9664	45.25
63.5	109,196	3,029	0.0277	0.9723	43.73
64.5	87,886	2,923	0.0333	0.9667	42.51
65.5	69,936	3,025	0.0432	0.9568	41.10
66.5	55,800	1,357	0.0243	0.9757	39.32
67.5	43,650	2,973	0.0681	0.9319	38.37
68.5	32,135	1,708	0.0531	0.9469	35.75
69.5	25,967	709	0.0273	0.9727	33.85
70.5	34,782	912	0.0262	0.9738	32.93
71.5	30,469	538	0.0177	0.9823	32.06
72.5	32,800	812	0.0248	0.9752	31.50
73.5	11,487	188	0.0164	0.9836	30.72
74.5	10,983	376	0.0342	0.9658	30.22
75.5	10,607	63	0.0059	0.9941	29.18
76.5	10,407	222	0.0214	0.9786	29.01
77.5	9,928	538	0.0542	0.9458	28.39
78.5	9,202	127	0.0138	0.9862	26.85

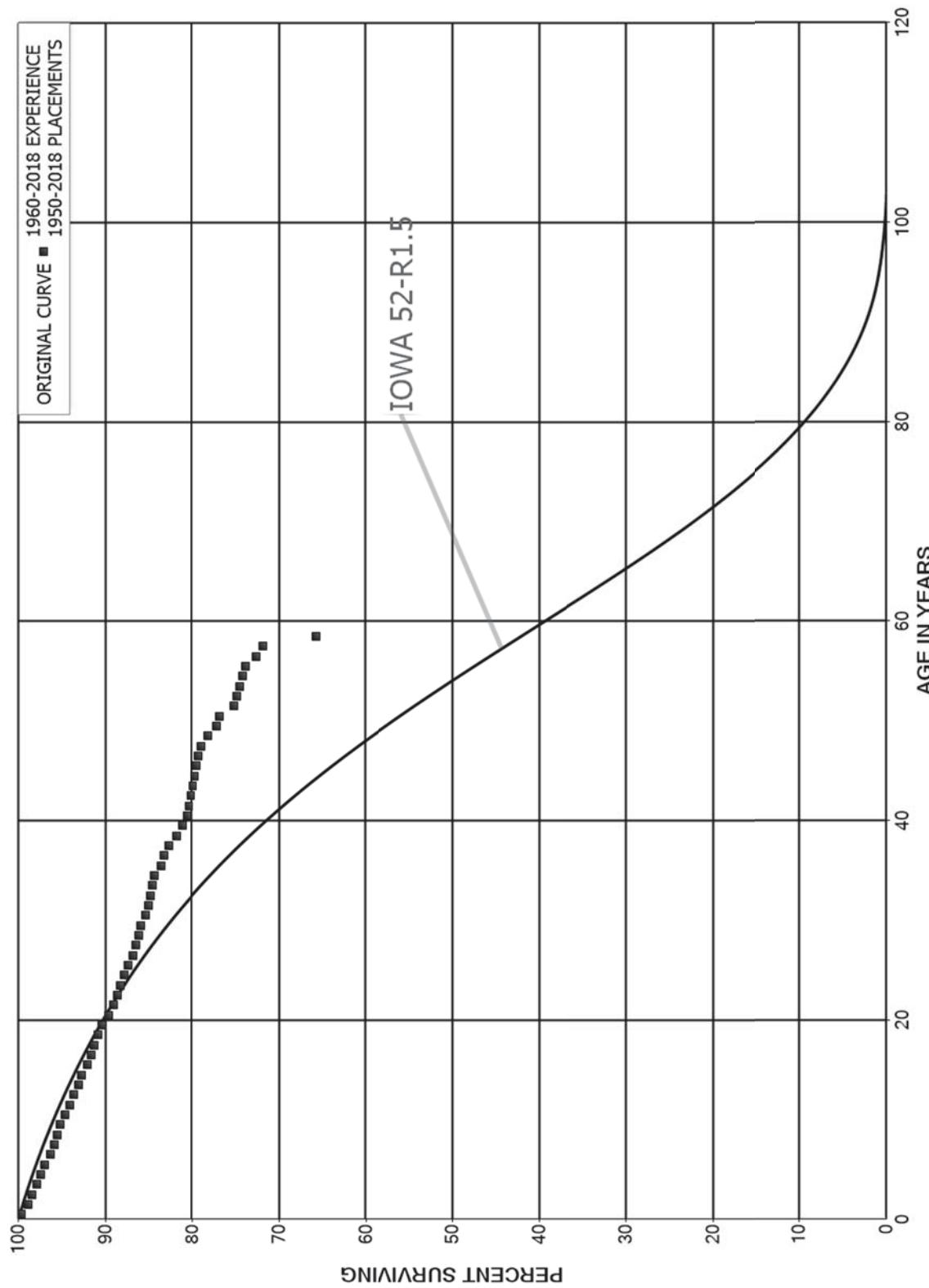
DUKE ENERGY CAROLINAS

ACCOUNT 368 LINE TRANSFORMERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1919-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
79.5	8,881		0.0000	1.0000	26.48
80.5	8,881	2,695	0.3034	0.6966	26.48
81.5	6,186	127	0.0205	0.9795	18.45
82.5	6,060	651	0.1074	0.8926	18.07
83.5	5,337	2,898	0.5429	0.4571	16.13
84.5	2,426	630	0.2598	0.7402	7.37
85.5	1,695	1,428	0.8426	0.1574	5.46
86.5	213	33	0.1554	0.8446	0.86
87.5	133	50	0.3761	0.6239	0.73
88.5	50	7	0.1418	0.8582	0.45
89.5					0.39

DUKE ENERGY CAROLINAS
ACCOUNT 369 SERVICES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 369 SERVICES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1950-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,213,976,341	5,198,071	0.0043	0.9957	100.00
0.5	985,253,368	7,362,833	0.0075	0.9925	99.57
1.5	995,582,908	4,770,828	0.0048	0.9952	98.83
2.5	1,008,710,496	5,808,375	0.0058	0.9942	98.35
3.5	1,000,363,845	3,612,777	0.0036	0.9964	97.79
4.5	948,031,920	5,290,286	0.0056	0.9944	97.43
5.5	907,173,943	5,242,939	0.0058	0.9942	96.89
6.5	874,457,130	4,901,920	0.0056	0.9944	96.33
7.5	829,693,766	2,394,663	0.0029	0.9971	95.79
8.5	812,977,039	2,574,329	0.0032	0.9968	95.51
9.5	767,800,907	5,127,013	0.0067	0.9933	95.21
10.5	747,737,137	3,780,830	0.0051	0.9949	94.58
11.5	705,336,969	3,928,098	0.0056	0.9944	94.10
12.5	661,549,067	3,231,511	0.0049	0.9951	93.57
13.5	623,789,748	2,555,632	0.0041	0.9959	93.12
14.5	592,517,132	3,964,509	0.0067	0.9933	92.74
15.5	576,341,563	2,826,238	0.0049	0.9951	92.11
16.5	539,555,280	2,365,368	0.0044	0.9956	91.66
17.5	506,371,914	2,191,324	0.0043	0.9957	91.26
18.5	465,442,496	2,383,878	0.0051	0.9949	90.87
19.5	430,408,488	3,582,639	0.0083	0.9917	90.40
20.5	400,061,138	2,761,374	0.0069	0.9931	89.65
21.5	364,638,671	1,599,876	0.0044	0.9956	89.03
22.5	336,297,843	1,400,042	0.0042	0.9958	88.64
23.5	313,902,381	1,632,107	0.0052	0.9948	88.27
24.5	290,375,513	1,531,473	0.0053	0.9947	87.81
25.5	263,685,516	1,437,975	0.0055	0.9945	87.35
26.5	243,988,018	1,040,127	0.0043	0.9957	86.87
27.5	224,736,632	868,677	0.0039	0.9961	86.50
28.5	200,391,013	509,531	0.0025	0.9975	86.17
29.5	175,891,878	1,050,257	0.0060	0.9940	85.95
30.5	150,470,620	559,551	0.0037	0.9963	85.43
31.5	135,754,022	459,020	0.0034	0.9966	85.12
32.5	128,517,812	315,642	0.0025	0.9975	84.83
33.5	119,899,780	354,008	0.0030	0.9970	84.62
34.5	108,123,862	967,260	0.0089	0.9911	84.37
35.5	94,416,246	404,473	0.0043	0.9957	83.62
36.5	85,542,726	564,561	0.0066	0.9934	83.26
37.5	75,865,657	817,223	0.0108	0.9892	82.71
38.5	68,977,234	547,691	0.0079	0.9921	81.82

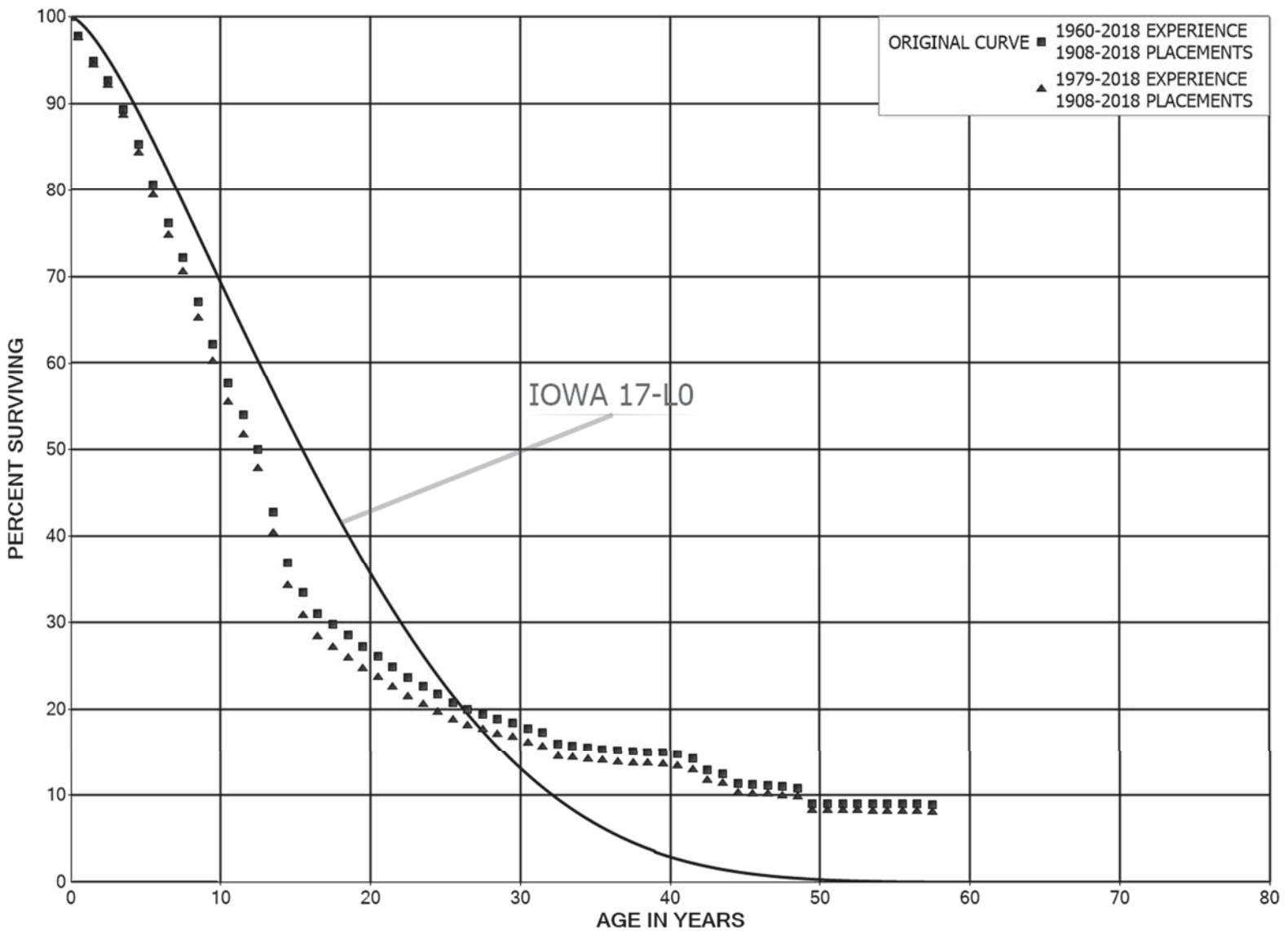
DUKE ENERGY CAROLINAS

ACCOUNT 369 SERVICES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1950-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	60,729,215	399,043	0.0066	0.9934	81.17
40.5	53,950,727	157,586	0.0029	0.9971	80.63
41.5	47,571,988	153,685	0.0032	0.9968	80.40
42.5	42,784,395	80,394	0.0019	0.9981	80.14
43.5	41,186,147	115,052	0.0028	0.9972	79.99
44.5	35,170,602	104,169	0.0030	0.9970	79.77
45.5	30,833,055	85,453	0.0028	0.9972	79.53
46.5	26,326,402	124,512	0.0047	0.9953	79.31
47.5	23,057,240	214,996	0.0093	0.9907	78.93
48.5	22,078,331	300,955	0.0136	0.9864	78.20
49.5	18,453,607	78,163	0.0042	0.9958	77.13
50.5	17,602,979	363,769	0.0207	0.9793	76.80
51.5	14,930,654	79,875	0.0053	0.9947	75.22
52.5	12,990,225	50,891	0.0039	0.9961	74.82
53.5	12,433,754	57,144	0.0046	0.9954	74.52
54.5	10,619,087	50,612	0.0048	0.9952	74.18
55.5	9,388,693	157,130	0.0167	0.9833	73.83
56.5	7,800,879	85,328	0.0109	0.9891	72.59
57.5	6,373,677	541,367	0.0849	0.9151	71.80
58.5					65.70

DUKE ENERGY CAROLINAS
ACCOUNTS 370 AND 370.01 METERING EQUIPMENT AND METERS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNTS 370 AND 370.01 METERING EQUIPMENT AND METERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	835,146,377	19,136,887	0.0229	0.9771	100.00
0.5	726,762,084	21,460,120	0.0295	0.9705	97.71
1.5	658,389,568	15,444,846	0.0235	0.9765	94.82
2.5	623,450,403	22,468,001	0.0360	0.9640	92.60
3.5	586,266,608	26,124,472	0.0446	0.9554	89.26
4.5	558,734,501	30,277,427	0.0542	0.9458	85.28
5.5	533,425,639	29,717,509	0.0557	0.9443	80.66
6.5	495,764,355	26,074,393	0.0526	0.9474	76.17
7.5	457,928,153	32,526,290	0.0710	0.9290	72.16
8.5	423,580,351	30,515,147	0.0720	0.9280	67.04
9.5	390,679,071	28,801,835	0.0737	0.9263	62.21
10.5	359,620,438	23,261,733	0.0647	0.9353	57.62
11.5	334,463,463	24,165,073	0.0723	0.9277	53.89
12.5	309,107,232	44,658,625	0.1445	0.8555	50.00
13.5	263,030,165	36,409,438	0.1384	0.8616	42.78
14.5	216,968,433	20,169,641	0.0930	0.9070	36.86
15.5	191,575,415	14,053,637	0.0734	0.9266	33.43
16.5	170,492,274	6,783,173	0.0398	0.9602	30.98
17.5	161,847,274	6,644,038	0.0411	0.9589	29.74
18.5	154,457,150	7,244,568	0.0469	0.9531	28.52
19.5	145,920,853	6,250,235	0.0428	0.9572	27.19
20.5	138,017,862	6,170,481	0.0447	0.9553	26.02
21.5	129,901,893	6,316,292	0.0486	0.9514	24.86
22.5	120,620,922	5,258,559	0.0436	0.9564	23.65
23.5	112,510,638	4,647,000	0.0413	0.9587	22.62
24.5	104,752,967	4,819,942	0.0460	0.9540	21.68
25.5	96,853,036	3,493,408	0.0361	0.9639	20.69
26.5	90,723,072	2,539,114	0.0280	0.9720	19.94
27.5	85,036,910	2,218,554	0.0261	0.9739	19.38
28.5	77,295,726	1,795,427	0.0232	0.9768	18.88
29.5	72,047,123	2,936,852	0.0408	0.9592	18.44
30.5	64,936,726	1,612,740	0.0248	0.9752	17.69
31.5	59,747,512	4,622,726	0.0774	0.9226	17.25
32.5	51,388,849	583,088	0.0113	0.9887	15.91
33.5	45,951,463	677,207	0.0147	0.9853	15.73
34.5	41,270,804	452,530	0.0110	0.9890	15.50
35.5	37,081,186	347,017	0.0094	0.9906	15.33
36.5	33,726,883	232,885	0.0069	0.9931	15.19
37.5	30,532,194	211,622	0.0069	0.9931	15.08
38.5	28,050,186	157,836	0.0056	0.9944	14.98

DUKE ENERGY CAROLINAS

ACCOUNTS 370 AND 370.01 METERING EQUIPMENT AND METERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	25,562,822	308,596	0.0121	0.9879	14.89
40.5	23,429,481	912,076	0.0389	0.9611	14.71
41.5	20,923,889	1,885,208	0.0901	0.9099	14.14
42.5	17,394,586	569,080	0.0327	0.9673	12.87
43.5	16,489,208	1,567,796	0.0951	0.9049	12.45
44.5	12,716,838	131,146	0.0103	0.9897	11.26
45.5	11,409,687	84,266	0.0074	0.9926	11.15
46.5	10,319,832	147,178	0.0143	0.9857	11.06
47.5	9,294,375	182,000	0.0196	0.9804	10.91
48.5	8,211,010	1,304,543	0.1589	0.8411	10.69
49.5	6,238,040	6,586	0.0011	0.9989	8.99
50.5	5,743,052	6,046	0.0011	0.9989	8.98
51.5	5,206,864	3,595	0.0007	0.9993	8.97
52.5	4,728,172	4,631	0.0010	0.9990	8.97
53.5	4,365,723	9,694	0.0022	0.9978	8.96
54.5	3,980,952	6,766	0.0017	0.9983	8.94
55.5	3,587,066	2,024	0.0006	0.9994	8.92
56.5	3,211,302	37,048	0.0115	0.9885	8.92
57.5	2,883,348	7,438	0.0026	0.9974	8.82
58.5	3,374	44	0.0130	0.9870	8.79
59.5	3,330		0.0000	1.0000	8.68
60.5	3,330	1,049	0.3150	0.6850	8.68
61.5	2,281		0.0000	1.0000	5.95
62.5	2,281		0.0000	1.0000	5.95
63.5	2,281	41	0.0180	0.9820	5.95
64.5	2,240	1,311	0.5853	0.4147	5.84
65.5	929		0.0000	1.0000	2.42
66.5	929	691	0.7438	0.2562	2.42
67.5	238		0.0000	1.0000	0.62
68.5	238		0.0000	1.0000	0.62
69.5	238		0.0000	1.0000	0.62
70.5	238	122	0.5126	0.4874	0.62
71.5	238		0.0000	1.0000	0.30
72.5	238		0.0000	1.0000	0.30
73.5	238		0.0000	1.0000	0.30
74.5	238		0.0000	1.0000	0.30
75.5	238		0.0000	1.0000	0.30
76.5	238		0.0000	1.0000	0.30
77.5	238		0.0000	1.0000	0.30
78.5	238		0.0000	1.0000	0.30
79.5					0.30

DUKE ENERGY CAROLINAS

ACCOUNTS 370 AND 370.01 METERING EQUIPMENT AND METERS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1908-2018		EXPERIENCE BAND 1979-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	772,031,175	19,134,097	0.0248	0.9752	100.00
0.5	667,559,594	21,047,892	0.0315	0.9685	97.52
1.5	602,776,884	14,948,390	0.0248	0.9752	94.45
2.5	573,103,574	22,001,134	0.0384	0.9616	92.10
3.5	537,558,516	25,790,549	0.0480	0.9520	88.57
4.5	515,465,229	29,851,591	0.0579	0.9421	84.32
5.5	493,933,022	29,280,083	0.0593	0.9407	79.44
6.5	459,302,188	25,626,374	0.0558	0.9442	74.73
7.5	423,825,328	32,407,900	0.0765	0.9235	70.56
8.5	391,155,875	30,061,381	0.0769	0.9231	65.16
9.5	359,929,151	28,278,566	0.0786	0.9214	60.15
10.5	330,303,783	22,424,422	0.0679	0.9321	55.43
11.5	306,743,839	23,510,180	0.0766	0.9234	51.67
12.5	282,855,086	44,257,143	0.1565	0.8435	47.71
13.5	237,927,954	35,920,103	0.1510	0.8490	40.24
14.5	193,170,493	19,713,030	0.1020	0.8980	34.17
15.5	169,068,936	13,487,644	0.0798	0.9202	30.68
16.5	149,735,384	6,393,430	0.0427	0.9573	28.23
17.5	142,384,255	6,222,798	0.0437	0.9563	27.03
18.5	154,452,308	7,244,568	0.0469	0.9531	25.85
19.5	145,916,192	6,250,235	0.0428	0.9572	24.63
20.5	138,013,201	6,170,481	0.0447	0.9553	23.58
21.5	129,898,738	6,316,292	0.0486	0.9514	22.52
22.5	120,617,767	5,258,559	0.0436	0.9564	21.43
23.5	112,507,483	4,647,000	0.0413	0.9587	20.49
24.5	104,749,879	4,819,942	0.0460	0.9540	19.65
25.5	96,851,899	3,493,408	0.0361	0.9639	18.74
26.5	90,721,935	2,539,114	0.0280	0.9720	18.07
27.5	85,036,910	2,218,554	0.0261	0.9739	17.56
28.5	77,295,726	1,795,427	0.0232	0.9768	17.10
29.5	72,047,123	2,936,852	0.0408	0.9592	16.71
30.5	64,936,726	1,612,740	0.0248	0.9752	16.03
31.5	59,747,512	4,622,726	0.0774	0.9226	15.63
32.5	51,388,849	583,088	0.0113	0.9887	14.42
33.5	45,951,463	677,207	0.0147	0.9853	14.25
34.5	41,270,804	452,530	0.0110	0.9890	14.04
35.5	37,081,186	347,017	0.0094	0.9906	13.89
36.5	33,726,883	232,885	0.0069	0.9931	13.76
37.5	30,532,194	211,622	0.0069	0.9931	13.67
38.5	28,050,186	157,836	0.0056	0.9944	13.57

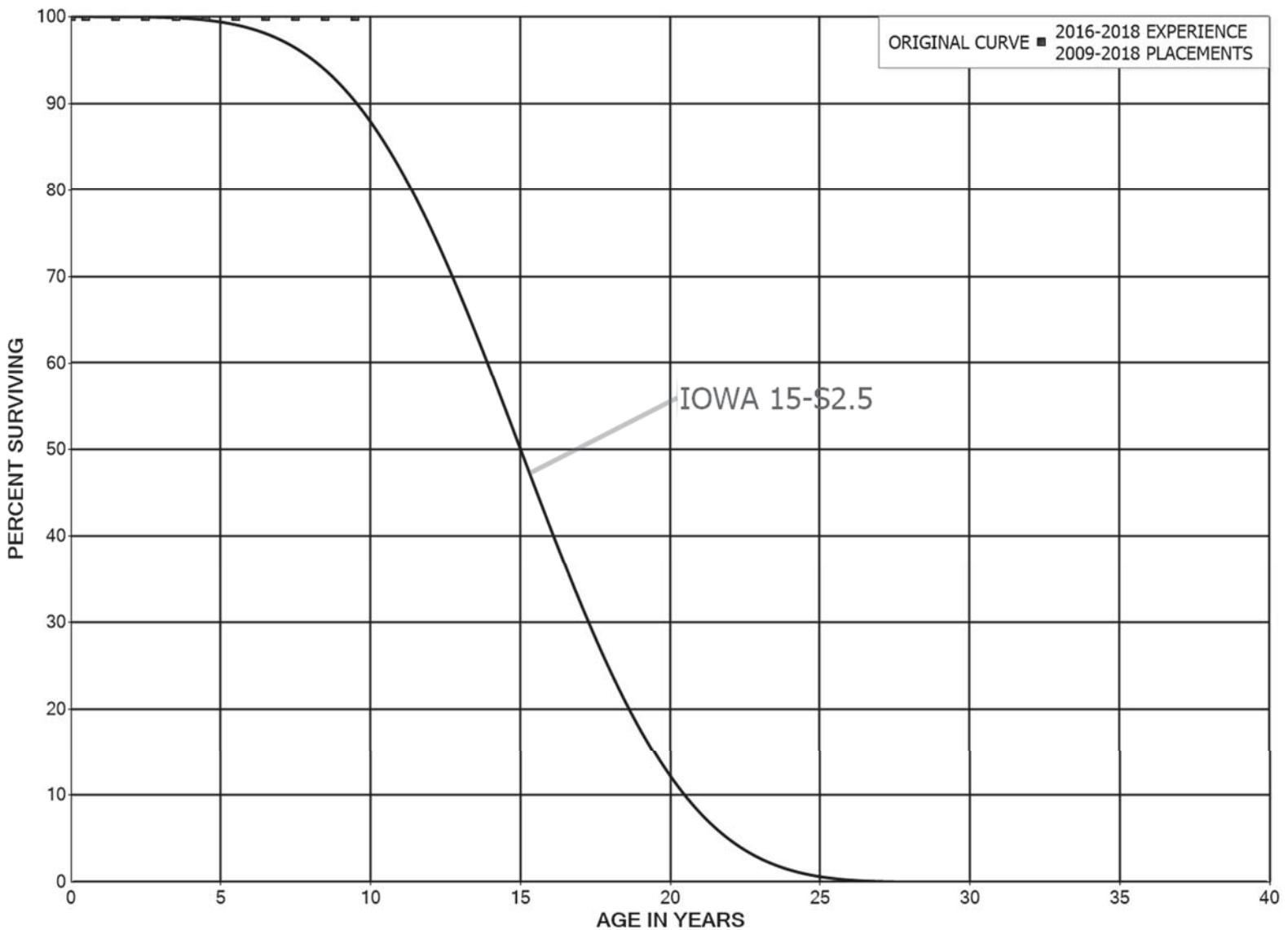
DUKE ENERGY CAROLINAS

ACCOUNTS 370 AND 370.01 METERING EQUIPMENT AND METERS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1908-2018			EXPERIENCE BAND 1979-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	25,562,822	308,596	0.0121	0.9879	13.49
40.5	23,429,481	912,076	0.0389	0.9611	13.33
41.5	20,923,889	1,885,208	0.0901	0.9099	12.81
42.5	17,394,586	569,080	0.0327	0.9673	11.66
43.5	16,489,208	1,567,796	0.0951	0.9049	11.28
44.5	12,716,838	131,146	0.0103	0.9897	10.20
45.5	11,409,687	84,266	0.0074	0.9926	10.10
46.5	10,319,832	147,178	0.0143	0.9857	10.02
47.5	9,294,375	182,000	0.0196	0.9804	9.88
48.5	8,211,010	1,304,543	0.1589	0.8411	9.69
49.5	6,238,040	6,586	0.0011	0.9989	8.15
50.5	5,743,052	6,046	0.0011	0.9989	8.14
51.5	5,206,626	3,595	0.0007	0.9993	8.13
52.5	4,727,934	4,631	0.0010	0.9990	8.13
53.5	4,365,485	9,694	0.0022	0.9978	8.12
54.5	3,980,714	6,766	0.0017	0.9983	8.10
55.5	3,586,828	2,024	0.0006	0.9994	8.09
56.5	3,211,064	37,048	0.0115	0.9885	8.08
57.5	2,883,110	7,438	0.0026	0.9974	7.99
58.5	3,136	44	0.0140	0.9860	7.97
59.5	3,092		0.0000	1.0000	7.86
60.5	3,092	1,049	0.3393	0.6607	7.86
61.5	2,043		0.0000	1.0000	5.19
62.5	2,043		0.0000	1.0000	5.19
63.5	2,043	41	0.0201	0.9799	5.19
64.5	2,002	1,311	0.6548	0.3452	5.09
65.5	691		0.0000	1.0000	1.76
66.5	691	691	1.0000		1.76
67.5					
68.5					
69.5					
70.5	238	122	0.5126		
71.5	238		0.0000		
72.5	238		0.0000		
73.5	238		0.0000		
74.5	238		0.0000		
75.5	238		0.0000		
76.5	238		0.0000		
77.5	238		0.0000		
78.5	238		0.0000		
79.5					

DUKE ENERGY CAROLINAS
ACCOUNT 370.02 METERS - UTILITY OF THE FUTURE
ORIGINAL AND SMOOTH SURVIVOR CURVES



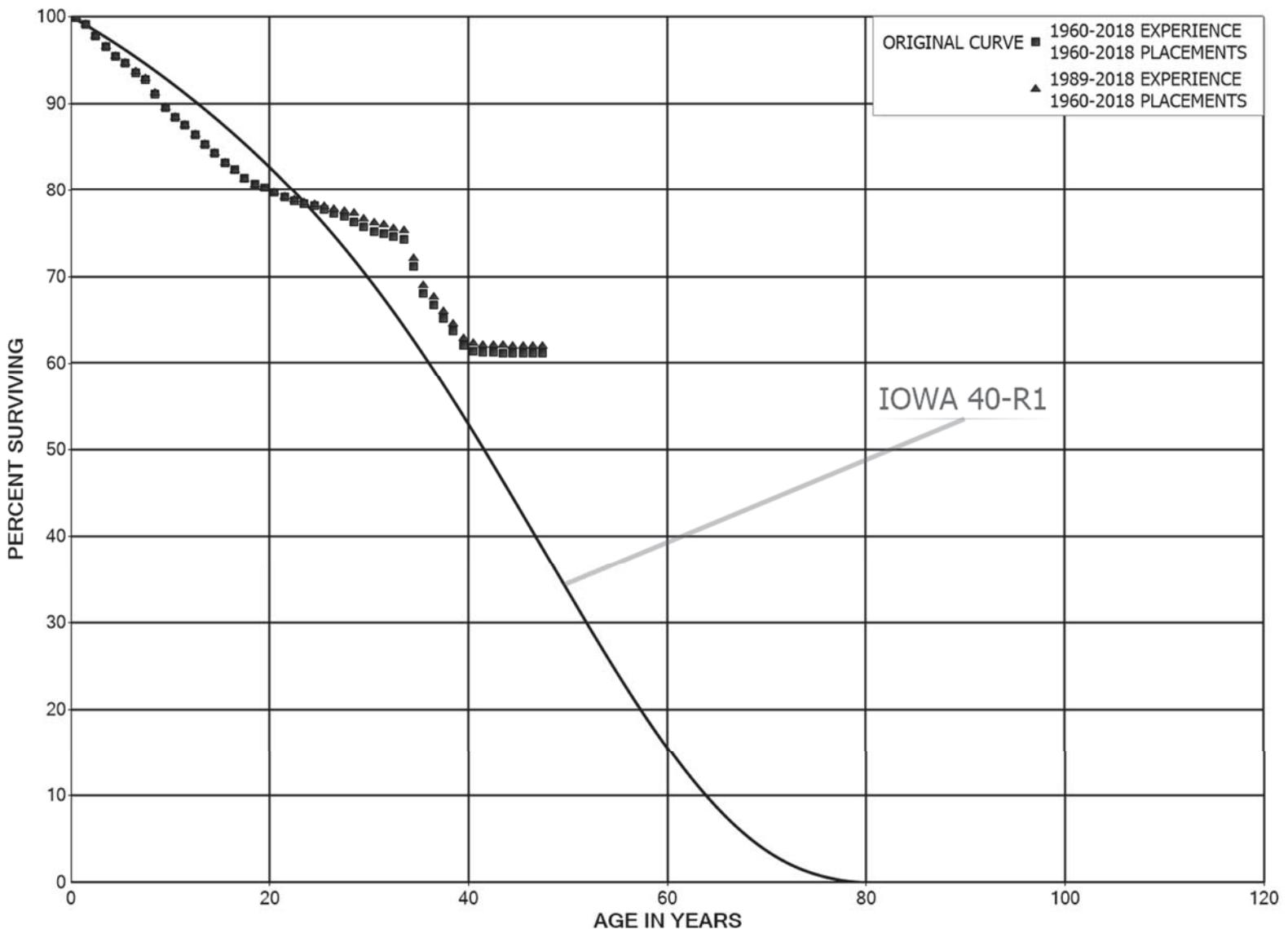
DUKE ENERGY CAROLINAS

ACCOUNT 370.02 METERS - UTILITY OF THE FUTURE

ORIGINAL LIFE TABLE

PLACEMENT BAND 2009-2018		EXPERIENCE BAND 2016-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	336,169,585	0.0000	1.0000	100.00	
0.5	247,515,471	0.0000	1.0000	100.00	
1.5	129,599,821	0.0000	1.0000	100.00	
2.5	37,850,636	0.0000	1.0000	100.00	
3.5	124,673	0.0000	1.0000	100.00	
4.5	244,495	0.0000	1.0000	100.00	
5.5	162,248	0.0000	1.0000	100.00	
6.5	4,064,854	0.0000	1.0000	100.00	
7.5	11,984,387	0.0000	1.0000	100.00	
8.5	11,739,188	0.0000	1.0000	100.00	
9.5				100.00	

DUKE ENERGY CAROLINAS
ACCOUNT 371 INSTALLATIONS ON CUSTOMERS' PREMISES
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS' PREMISES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1960-2018
AGE AT BEGIN OF INTERVAL				PCT SURV	BEGIN OF INTERVAL
0.0	1,036,299,303	1,590,611	0.0015	0.9985	100.00
0.5	760,405,746	6,218,832	0.0082	0.9918	99.85
1.5	776,773,951	10,243,955	0.0132	0.9868	99.03
2.5	787,150,042	9,631,978	0.0122	0.9878	97.72
3.5	775,724,766	9,022,688	0.0116	0.9884	96.53
4.5	730,709,007	6,403,656	0.0088	0.9912	95.41
5.5	696,185,439	7,459,699	0.0107	0.9893	94.57
6.5	658,783,070	5,778,101	0.0088	0.9912	93.56
7.5	613,485,386	10,872,554	0.0177	0.9823	92.74
8.5	584,081,165	10,352,948	0.0177	0.9823	91.09
9.5	544,652,958	6,335,155	0.0116	0.9884	89.48
10.5	493,990,119	5,274,551	0.0107	0.9893	88.44
11.5	446,946,228	5,332,106	0.0119	0.9881	87.49
12.5	406,194,155	5,304,434	0.0131	0.9869	86.45
13.5	373,888,608	4,381,733	0.0117	0.9883	85.32
14.5	330,424,691	4,328,008	0.0131	0.9869	84.32
15.5	303,195,617	3,123,501	0.0103	0.9897	83.22
16.5	274,138,982	3,239,184	0.0118	0.9882	82.36
17.5	253,878,959	2,058,485	0.0081	0.9919	81.38
18.5	225,991,573	1,304,445	0.0058	0.9942	80.72
19.5	204,823,279	1,246,550	0.0061	0.9939	80.26
20.5	183,300,972	1,315,713	0.0072	0.9928	79.77
21.5	163,684,065	865,782	0.0053	0.9947	79.20
22.5	149,677,637	722,416	0.0048	0.9952	78.78
23.5	136,095,437	471,577	0.0035	0.9965	78.40
24.5	123,325,903	561,925	0.0046	0.9954	78.13
25.5	108,301,784	628,846	0.0058	0.9942	77.77
26.5	96,378,022	459,583	0.0048	0.9952	77.32
27.5	80,526,351	656,623	0.0082	0.9918	76.95
28.5	66,937,763	569,233	0.0085	0.9915	76.32
29.5	58,431,240	375,955	0.0064	0.9936	75.67
30.5	49,109,898	169,193	0.0034	0.9966	75.19
31.5	42,054,196	206,422	0.0049	0.9951	74.93
32.5	36,960,017	124,499	0.0034	0.9966	74.56
33.5	32,575,205	1,392,960	0.0428	0.9572	74.31
34.5	27,676,278	1,183,453	0.0428	0.9572	71.13
35.5	25,310,588	504,753	0.0199	0.9801	68.09
36.5	23,070,790	551,654	0.0239	0.9761	66.73
37.5	20,622,901	460,004	0.0223	0.9777	65.14
38.5	19,509,750	500,926	0.0257	0.9743	63.68

DUKE ENERGY CAROLINAS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS' PREMISES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	17,930,772	173,579	0.0097	0.9903	62.05
40.5	17,024,992	47,802	0.0028	0.9972	61.45
41.5	16,064,117	11,586	0.0007	0.9993	61.28
42.5	15,228,638	4,721	0.0003	0.9997	61.23
43.5	15,113,978	3,210	0.0002	0.9998	61.21
44.5	12,285,783		0.0000	1.0000	61.20
45.5	10,098,117		0.0000	1.0000	61.20
46.5	7,825,623		0.0000	1.0000	61.20
47.5	6,108,287		0.0000	1.0000	61.20
48.5	4,328,965		0.0000	1.0000	61.20
49.5	3,337,210		0.0000	1.0000	61.20
50.5	2,846,845		0.0000	1.0000	61.20
51.5	2,090,303		0.0000	1.0000	61.20
52.5	1,515,175		0.0000	1.0000	61.20
53.5	1,082,330		0.0000	1.0000	61.20
54.5	721,641		0.0000	1.0000	61.20
55.5	396,806	149,000	0.3755	0.6245	61.20
56.5	134,046	132,344	0.9873	0.0127	38.22
57.5	1,702	1,702	1.0000		0.49
58.5					

DUKE ENERGY CAROLINAS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS' PREMISES

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1989-2018 PCT SURV BEGIN OF INTERVAL
0.0	931,056,237	1,547,229	0.0017	0.9983	100.00
0.5	668,606,741	4,891,802	0.0073	0.9927	99.83
1.5	694,929,232	9,543,695	0.0137	0.9863	99.10
2.5	714,595,889	8,825,235	0.0123	0.9877	97.74
3.5	713,580,834	8,138,766	0.0114	0.9886	96.54
4.5	677,396,583	5,642,976	0.0083	0.9917	95.43
5.5	652,924,502	6,855,164	0.0105	0.9895	94.64
6.5	621,740,153	5,399,523	0.0087	0.9913	93.65
7.5	581,248,866	10,574,250	0.0182	0.9818	92.83
8.5	553,694,018	10,126,526	0.0183	0.9817	91.14
9.5	515,804,216	5,988,790	0.0116	0.9884	89.48
10.5	466,483,414	4,996,064	0.0107	0.9893	88.44
11.5	420,796,894	5,092,916	0.0121	0.9879	87.49
12.5	381,205,684	5,096,634	0.0134	0.9866	86.43
13.5	349,428,188	4,191,846	0.0120	0.9880	85.28
14.5	309,699,884	4,130,880	0.0133	0.9867	84.25
15.5	285,793,046	2,904,488	0.0102	0.9898	83.13
16.5	259,873,159	3,080,991	0.0119	0.9881	82.28
17.5	242,129,871	1,923,327	0.0079	0.9921	81.31
18.5	216,609,917	1,176,746	0.0054	0.9946	80.66
19.5	196,991,586	1,118,360	0.0057	0.9943	80.22
20.5	176,168,063	1,195,285	0.0068	0.9932	79.77
21.5	157,935,349	789,304	0.0050	0.9950	79.23
22.5	145,044,512	673,746	0.0046	0.9954	78.83
23.5	132,199,256	345,761	0.0026	0.9974	78.47
24.5	120,313,802	357,372	0.0030	0.9970	78.26
25.5	106,202,621	392,140	0.0037	0.9963	78.03
26.5	95,158,584	288,759	0.0030	0.9970	77.74
27.5	79,994,561	189,443	0.0024	0.9976	77.50
28.5	66,937,763	569,233	0.0085	0.9915	77.32
29.5	58,431,240	375,955	0.0064	0.9936	76.66
30.5	49,109,898	169,193	0.0034	0.9966	76.17
31.5	42,054,196	206,422	0.0049	0.9951	75.91
32.5	36,960,017	124,499	0.0034	0.9966	75.53
33.5	32,575,205	1,392,960	0.0428	0.9572	75.28
34.5	27,676,278	1,183,453	0.0428	0.9572	72.06
35.5	25,310,588	504,753	0.0199	0.9801	68.98
36.5	23,070,790	551,654	0.0239	0.9761	67.60
37.5	20,622,901	460,004	0.0223	0.9777	65.99
38.5	19,509,750	500,926	0.0257	0.9743	64.52

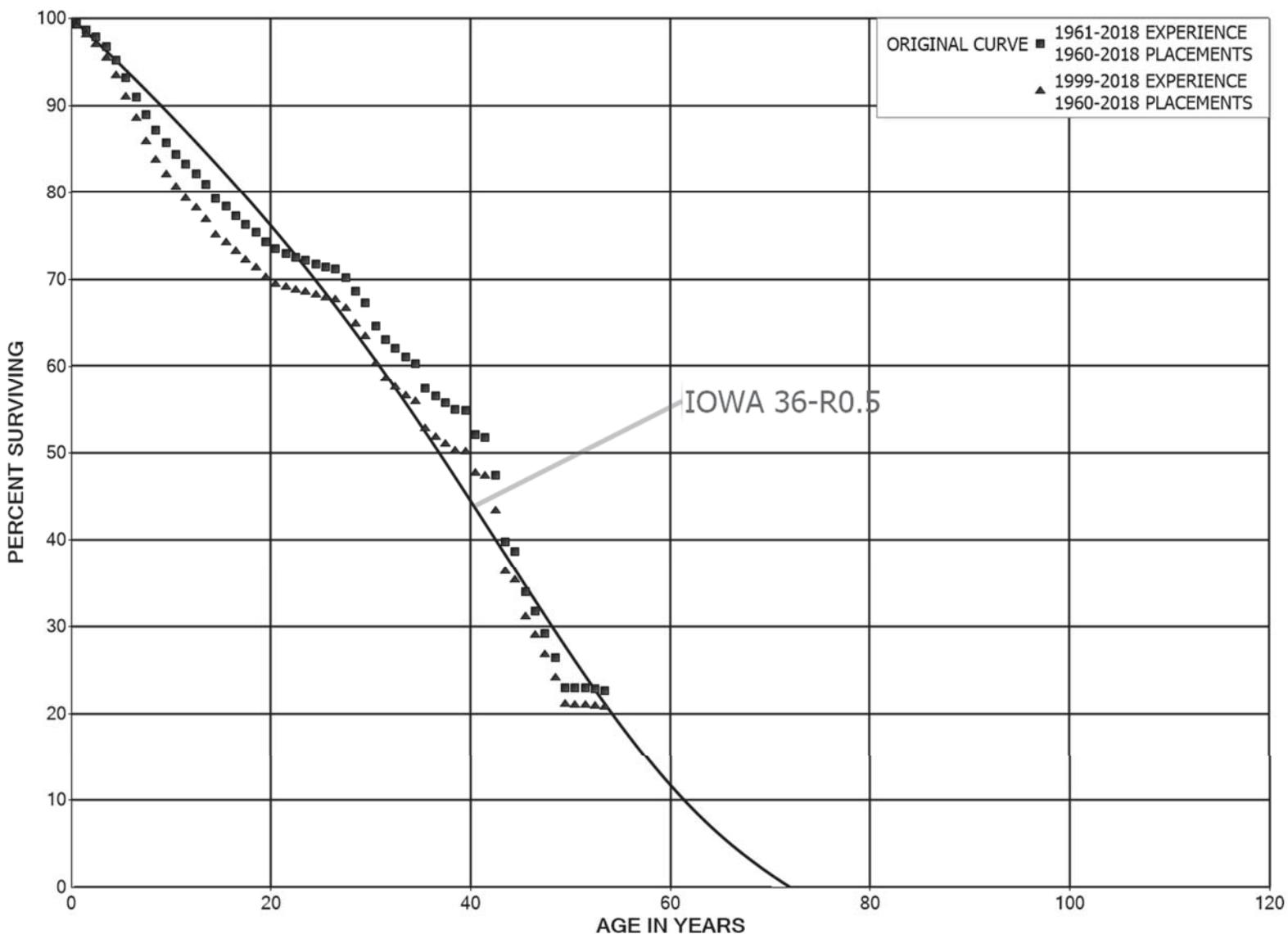
DUKE ENERGY CAROLINAS

ACCOUNT 371 INSTALLATIONS ON CUSTOMERS' PREMISES

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	17,930,772	173,579	0.0097	0.9903	62.86
40.5	17,024,992	47,802	0.0028	0.9972	62.25
41.5	16,064,117	11,586	0.0007	0.9993	62.08
42.5	15,228,638	4,721	0.0003	0.9997	62.03
43.5	15,113,978	3,210	0.0002	0.9998	62.01
44.5	12,285,783		0.0000	1.0000	62.00
45.5	10,098,117		0.0000	1.0000	62.00
46.5	7,825,623		0.0000	1.0000	62.00
47.5	6,108,287		0.0000	1.0000	62.00
48.5	4,328,965		0.0000	1.0000	62.00
49.5	3,337,210		0.0000	1.0000	62.00
50.5	2,846,845		0.0000	1.0000	62.00
51.5	2,090,303		0.0000	1.0000	62.00
52.5	1,515,175		0.0000	1.0000	62.00
53.5	1,082,330		0.0000	1.0000	62.00
54.5	721,641		0.0000	1.0000	62.00
55.5	396,806	149,000	0.3755	0.6245	62.00
56.5	134,046	132,344	0.9873	0.0127	38.72
57.5	1,702	1,702	1.0000		0.49
58.5					

DUKE ENERGY CAROLINAS
ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	328,342,802	1,931,877	0.0059	0.9941	100.00
0.5	266,201,266	1,986,491	0.0075	0.9925	99.41
1.5	266,565,803	2,290,474	0.0086	0.9914	98.67
2.5	268,537,938	3,076,999	0.0115	0.9885	97.82
3.5	266,670,014	4,197,646	0.0157	0.9843	96.70
4.5	251,671,774	5,316,531	0.0211	0.9789	95.18
5.5	237,111,980	5,645,244	0.0238	0.9762	93.17
6.5	223,160,372	4,942,388	0.0221	0.9779	90.95
7.5	204,750,218	4,083,001	0.0199	0.9801	88.94
8.5	199,345,966	3,180,330	0.0160	0.9840	87.16
9.5	190,510,764	3,022,470	0.0159	0.9841	85.77
10.5	179,430,240	2,474,487	0.0138	0.9862	84.41
11.5	169,079,149	2,246,503	0.0133	0.9867	83.25
12.5	159,858,974	2,352,676	0.0147	0.9853	82.14
13.5	151,670,541	3,057,989	0.0202	0.9798	80.93
14.5	141,410,848	1,710,207	0.0121	0.9879	79.30
15.5	136,135,338	1,776,000	0.0130	0.9870	78.34
16.5	128,956,888	1,816,342	0.0141	0.9859	77.32
17.5	122,173,106	1,413,893	0.0116	0.9884	76.23
18.5	113,084,050	1,655,577	0.0146	0.9854	75.35
19.5	106,402,384	1,074,067	0.0101	0.9899	74.24
20.5	97,631,078	757,306	0.0078	0.9922	73.50
21.5	89,534,776	486,655	0.0054	0.9946	72.93
22.5	81,582,599	402,814	0.0049	0.9951	72.53
23.5	75,406,068	450,997	0.0060	0.9940	72.17
24.5	69,791,289	300,651	0.0043	0.9957	71.74
25.5	64,010,724	244,104	0.0038	0.9962	71.43
26.5	57,770,358	758,250	0.0131	0.9869	71.16
27.5	48,352,130	1,136,874	0.0235	0.9765	70.22
28.5	40,987,306	753,871	0.0184	0.9816	68.57
29.5	36,276,897	1,469,313	0.0405	0.9595	67.31
30.5	31,420,784	744,150	0.0237	0.9763	64.58
31.5	28,288,387	442,923	0.0157	0.9843	63.06
32.5	23,829,160	404,335	0.0170	0.9830	62.07
33.5	21,481,912	242,268	0.0113	0.9887	61.01
34.5	19,446,924	955,555	0.0491	0.9509	60.33
35.5	17,042,769	269,352	0.0158	0.9842	57.36
36.5	14,923,111	200,776	0.0135	0.9865	56.46
37.5	13,816,804	194,050	0.0140	0.9860	55.70
38.5	12,791,760	24,670	0.0019	0.9981	54.91

DUKE ENERGY CAROLINAS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1961-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	12,300,620	619,777	0.0504	0.9496	54.81
40.5	11,350,628	70,013	0.0062	0.9938	52.05
41.5	10,632,292	890,547	0.0838	0.9162	51.73
42.5	9,391,966	1,526,288	0.1625	0.8375	47.39
43.5	7,573,203	209,065	0.0276	0.9724	39.69
44.5	6,790,416	812,067	0.1196	0.8804	38.60
45.5	5,631,879	379,107	0.0673	0.9327	33.98
46.5	5,102,399	397,984	0.0780	0.9220	31.69
47.5	4,531,605	443,043	0.0978	0.9022	29.22
48.5	3,918,703	500,049	0.1276	0.8724	26.36
49.5	1,543,498	3,760	0.0024	0.9976	23.00
50.5	1,449,623	3,277	0.0023	0.9977	22.94
51.5	1,211,243	3,460	0.0029	0.9971	22.89
52.5	861,541	8,151	0.0095	0.9905	22.83
53.5	747,841	8,723	0.0117	0.9883	22.61
54.5	623,658	4,017	0.0064	0.9936	22.35
55.5	545,232	2,563	0.0047	0.9953	22.20
56.5	432,642	1,908	0.0044	0.9956	22.10
57.5	222,938	978	0.0044	0.9956	22.00
58.5					21.90

DUKE ENERGY CAROLINAS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1960-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1999-2018 PCT SURV BEGIN OF INTERVAL
0.0	196,265,173	1,853,797	0.0094	0.9906	100.00
0.5	140,345,936	1,365,688	0.0097	0.9903	99.06
1.5	152,134,189	1,854,448	0.0122	0.9878	98.09
2.5	165,472,957	2,644,471	0.0160	0.9840	96.90
3.5	173,866,852	3,597,202	0.0207	0.9793	95.35
4.5	169,997,962	4,428,895	0.0261	0.9739	93.37
5.5	163,819,134	4,420,296	0.0270	0.9730	90.94
6.5	158,577,540	4,679,807	0.0295	0.9705	88.49
7.5	149,445,803	3,812,988	0.0255	0.9745	85.88
8.5	150,964,617	2,949,157	0.0195	0.9805	83.69
9.5	146,306,378	2,612,687	0.0179	0.9821	82.05
10.5	139,249,913	2,173,694	0.0156	0.9844	80.59
11.5	131,784,768	1,954,676	0.0148	0.9852	79.33
12.5	127,162,534	2,082,467	0.0164	0.9836	78.15
13.5	121,470,425	2,849,456	0.0235	0.9765	76.87
14.5	113,340,872	1,367,362	0.0121	0.9879	75.07
15.5	109,986,574	1,462,267	0.0133	0.9867	74.16
16.5	105,616,593	1,523,398	0.0144	0.9856	73.18
17.5	100,932,615	1,200,036	0.0119	0.9881	72.12
18.5	93,643,239	1,494,853	0.0160	0.9840	71.26
19.5	89,019,652	891,656	0.0100	0.9900	70.13
20.5	81,485,630	415,822	0.0051	0.9949	69.42
21.5	74,778,318	361,267	0.0048	0.9952	69.07
22.5	67,605,120	275,386	0.0041	0.9959	68.74
23.5	62,038,156	285,672	0.0046	0.9954	68.46
24.5	58,092,551	255,669	0.0044	0.9956	68.14
25.5	52,968,603	194,977	0.0037	0.9963	67.84
26.5	47,129,131	686,144	0.0146	0.9854	67.59
27.5	38,268,998	997,966	0.0261	0.9739	66.61
28.5	31,229,135	735,126	0.0235	0.9765	64.87
29.5	29,401,613	1,396,442	0.0475	0.9525	63.34
30.5	24,754,825	735,226	0.0297	0.9703	60.33
31.5	22,683,615	418,711	0.0185	0.9815	58.54
32.5	20,051,431	330,814	0.0165	0.9835	57.46
33.5	17,978,704	199,541	0.0111	0.9889	56.51
34.5	16,591,040	947,179	0.0571	0.9429	55.89
35.5	14,564,251	263,976	0.0181	0.9819	52.70
36.5	12,922,604	197,157	0.0153	0.9847	51.74
37.5	12,484,227	181,659	0.0146	0.9854	50.95
38.5	12,791,760	24,670	0.0019	0.9981	50.21

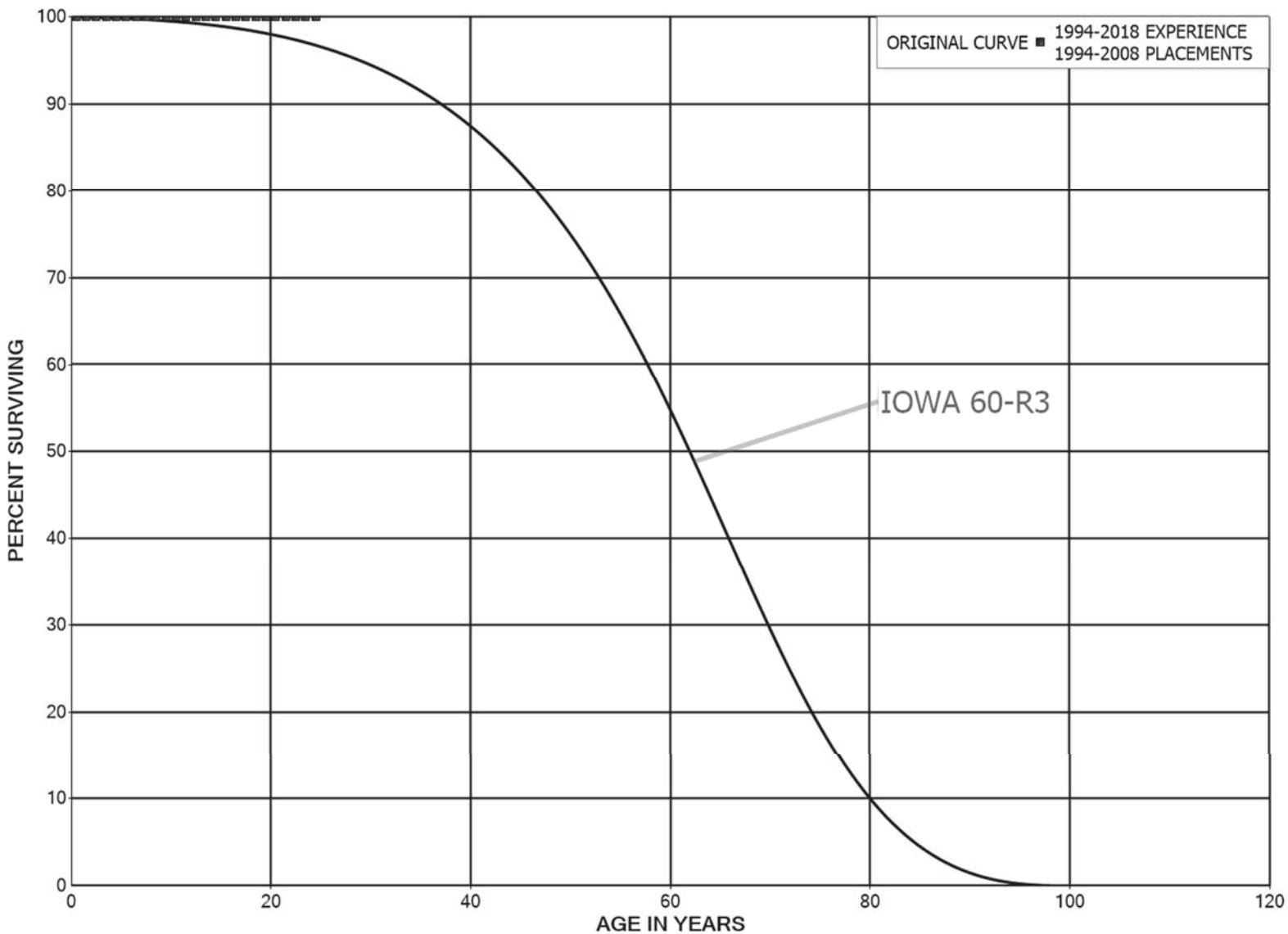
DUKE ENERGY CAROLINAS

ACCOUNT 373 STREET LIGHTING AND SIGNAL SYSTEMS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1960-2018			EXPERIENCE BAND 1999-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	12,300,620	619,777	0.0504	0.9496	50.11
40.5	11,350,628	70,013	0.0062	0.9938	47.59
41.5	10,632,292	890,547	0.0838	0.9162	47.29
42.5	9,391,966	1,526,288	0.1625	0.8375	43.33
43.5	7,573,203	209,065	0.0276	0.9724	36.29
44.5	6,790,416	812,067	0.1196	0.8804	35.29
45.5	5,631,879	379,107	0.0673	0.9327	31.07
46.5	5,102,399	397,984	0.0780	0.9220	28.98
47.5	4,531,605	443,043	0.0978	0.9022	26.72
48.5	3,918,703	500,049	0.1276	0.8724	24.11
49.5	1,543,498	3,760	0.0024	0.9976	21.03
50.5	1,449,623	3,277	0.0023	0.9977	20.98
51.5	1,211,243	3,460	0.0029	0.9971	20.93
52.5	861,541	8,151	0.0095	0.9905	20.87
53.5	747,841	8,723	0.0117	0.9883	20.67
54.5	623,658	4,017	0.0064	0.9936	20.43
55.5	545,232	2,563	0.0047	0.9953	20.30
56.5	432,642	1,908	0.0044	0.9956	20.21
57.5	222,938	978	0.0044	0.9956	20.12
58.5					20.03

DUKE ENERGY CAROLINAS
ACCOUNTS 389 AND 389.2 RIGHTS OF WAY AND LAND RIGHTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



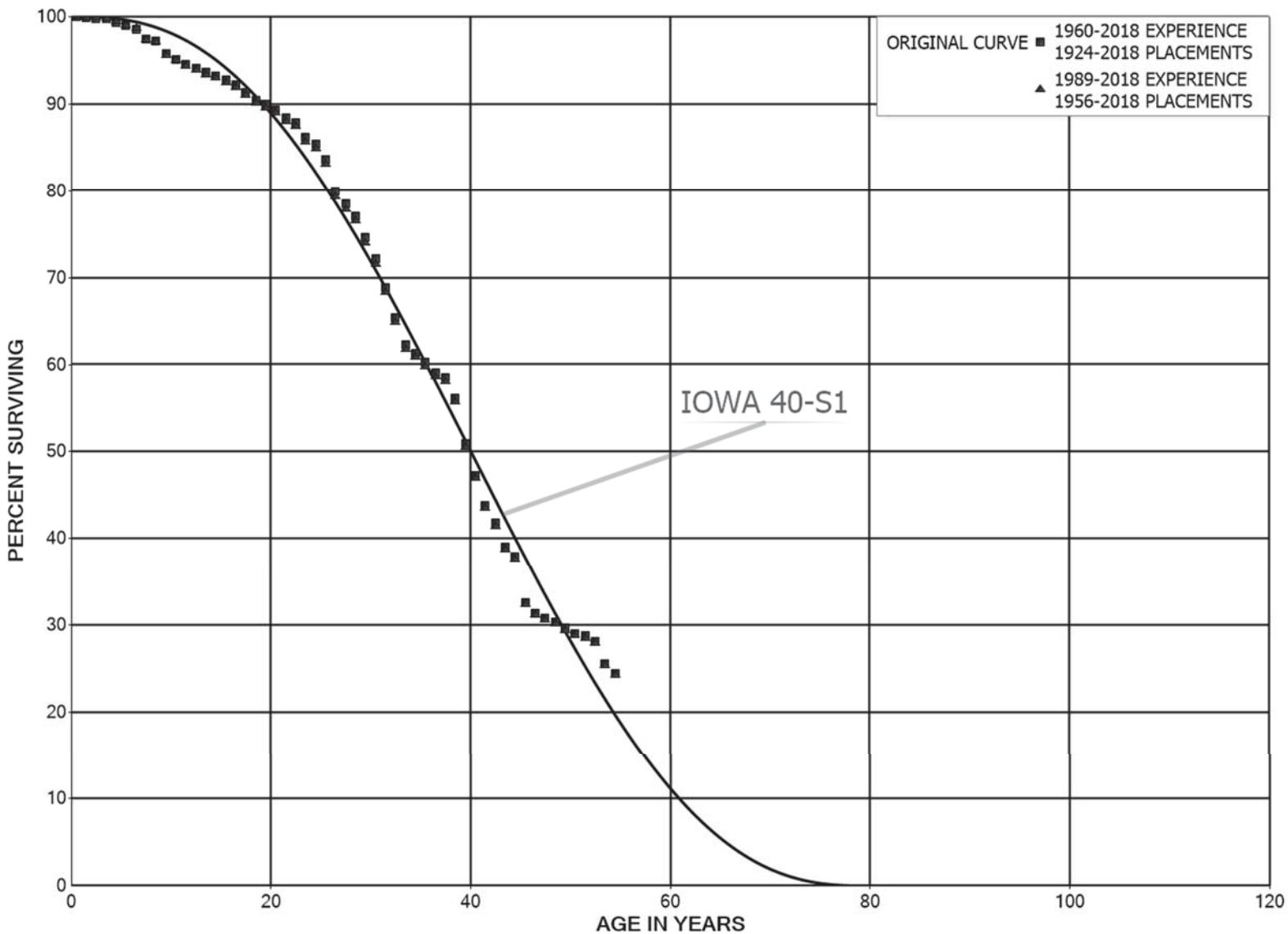
DUKE ENERGY CAROLINAS

ACCOUNTS 389 AND 389.2 RIGHTS OF WAY AND LAND RIGHTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1994-2008		EXPERIENCE BAND 1994-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	550,292		0.0000	1.0000	100.00
0.5	550,292		0.0000	1.0000	100.00
1.5	550,292		0.0000	1.0000	100.00
2.5	550,292		0.0000	1.0000	100.00
3.5	550,292		0.0000	1.0000	100.00
4.5	550,292		0.0000	1.0000	100.00
5.5	550,292		0.0000	1.0000	100.00
6.5	550,292		0.0000	1.0000	100.00
7.5	550,292		0.0000	1.0000	100.00
8.5	550,292		0.0000	1.0000	100.00
9.5	550,292		0.0000	1.0000	100.00
10.5	551,551		0.0000	1.0000	100.00
11.5	551,551		0.0000	1.0000	100.00
12.5	550,291		0.0000	1.0000	100.00
13.5	550,291		0.0000	1.0000	100.00
14.5	550,220		0.0000	1.0000	100.00
15.5	550,220		0.0000	1.0000	100.00
16.5	550,220		0.0000	1.0000	100.00
17.5	550,220		0.0000	1.0000	100.00
18.5	550,220		0.0000	1.0000	100.00
19.5	548,960		0.0000	1.0000	100.00
20.5	548,960		0.0000	1.0000	100.00
21.5	546,636		0.0000	1.0000	100.00
22.5	165		0.0000	1.0000	100.00
23.5	165		0.0000	1.0000	100.00
24.5					100.00

DUKE ENERGY CAROLINAS
ACCOUNT 390 STRUCTURES AND IMPROVEMENTS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1924-2018		EXPERIENCE BAND 1960-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	942,766,152	128,208	0.0001	0.9999	100.00
0.5	904,001,939	1,182,669	0.0013	0.9987	99.99
1.5	753,605,349	588,599	0.0008	0.9992	99.86
2.5	696,090,034	695,114	0.0010	0.9990	99.78
3.5	634,719,664	2,286,382	0.0036	0.9964	99.68
4.5	609,170,329	2,076,314	0.0034	0.9966	99.32
5.5	580,300,566	2,555,603	0.0044	0.9956	98.98
6.5	556,707,773	6,514,138	0.0117	0.9883	98.54
7.5	482,220,067	1,208,194	0.0025	0.9975	97.39
8.5	465,315,121	6,717,492	0.0144	0.9856	97.15
9.5	448,347,330	3,045,598	0.0068	0.9932	95.74
10.5	422,718,907	2,396,015	0.0057	0.9943	95.09
11.5	410,736,218	1,946,983	0.0047	0.9953	94.56
12.5	385,587,242	2,230,482	0.0058	0.9942	94.11
13.5	375,507,062	1,405,368	0.0037	0.9963	93.56
14.5	356,376,967	1,949,737	0.0055	0.9945	93.21
15.5	350,684,557	1,945,006	0.0055	0.9945	92.70
16.5	337,515,934	3,203,597	0.0095	0.9905	92.19
17.5	327,580,120	3,174,583	0.0097	0.9903	91.31
18.5	322,113,222	1,861,027	0.0058	0.9942	90.43
19.5	315,937,207	1,999,054	0.0063	0.9937	89.91
20.5	311,384,202	3,446,123	0.0111	0.9889	89.34
21.5	302,494,734	1,738,262	0.0057	0.9943	88.35
22.5	286,369,625	5,495,755	0.0192	0.9808	87.84
23.5	277,655,657	2,612,373	0.0094	0.9906	86.16
24.5	255,863,687	5,106,064	0.0200	0.9800	85.34
25.5	247,179,439	10,856,481	0.0439	0.9561	83.64
26.5	230,732,625	4,328,099	0.0188	0.9812	79.97
27.5	198,984,384	3,437,448	0.0173	0.9827	78.47
28.5	193,367,114	6,320,850	0.0327	0.9673	77.11
29.5	172,308,624	5,690,642	0.0330	0.9670	74.59
30.5	156,603,244	7,141,206	0.0456	0.9544	72.13
31.5	81,141,367	4,003,543	0.0493	0.9507	68.84
32.5	69,654,665	3,397,049	0.0488	0.9512	65.44
33.5	56,289,641	825,782	0.0147	0.9853	62.25
34.5	53,016,895	906,691	0.0171	0.9829	61.34
35.5	48,951,484	1,028,550	0.0210	0.9790	60.29
36.5	46,584,657	440,281	0.0095	0.9905	59.02
37.5	41,318,285	1,675,959	0.0406	0.9594	58.46
38.5	35,140,156	3,295,333	0.0938	0.9062	56.09

DUKE ENERGY CAROLINAS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1924-2018			EXPERIENCE BAND 1960-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	30,377,662	2,153,596	0.0709	0.9291	50.83
40.5	27,885,089	2,073,479	0.0744	0.9256	47.23
41.5	11,233,211	521,969	0.0465	0.9535	43.72
42.5	10,701,134	710,623	0.0664	0.9336	41.69
43.5	6,419,691	181,490	0.0283	0.9717	38.92
44.5	2,864,770	401,808	0.1403	0.8597	37.82
45.5	2,164,401	81,588	0.0377	0.9623	32.51
46.5	1,955,233	33,386	0.0171	0.9829	31.29
47.5	1,585,573	22,552	0.0142	0.9858	30.75
48.5	1,515,691	36,978	0.0244	0.9756	30.32
49.5	1,024,948	20,025	0.0195	0.9805	29.58
50.5	929,578	10,091	0.0109	0.9891	29.00
51.5	912,412	20,111	0.0220	0.9780	28.68
52.5	868,561	80,270	0.0924	0.9076	28.05
53.5	787,840	32,392	0.0411	0.9589	25.46
54.5	742,473	14,916	0.0201	0.9799	24.41
55.5	631,893	76,968	0.1218	0.8782	23.92
56.5	217,437	2,472	0.0114	0.9886	21.01
57.5	192,773	21,089	0.1094	0.8906	20.77
58.5	7,655		0.0000	1.0000	18.50
59.5	7,655	168	0.0219	0.9781	18.50
60.5	6,234	4,590	0.7363	0.2637	18.09
61.5	6,234	1,142	0.1831	0.8169	4.77
62.5					3.90

DUKE ENERGY CAROLINAS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1956-2018	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	EXPERIENCE BAND 1989-2018 PCT SURV BEGIN OF INTERVAL
0.0	704,763,255	89,874	0.0001	0.9999	100.00
0.5	695,130,628	678,953	0.0010	0.9990	99.99
1.5	629,641,949	448,893	0.0007	0.9993	99.89
2.5	582,697,106	616,425	0.0011	0.9989	99.82
3.5	524,788,044	1,833,100	0.0035	0.9965	99.71
4.5	509,990,042	1,937,346	0.0038	0.9962	99.36
5.5	485,887,992	1,973,232	0.0041	0.9959	98.99
6.5	467,194,835	6,316,250	0.0135	0.9865	98.59
7.5	402,594,881	949,664	0.0024	0.9976	97.25
8.5	393,620,830	6,299,769	0.0160	0.9840	97.02
9.5	383,042,320	2,184,343	0.0057	0.9943	95.47
10.5	362,885,927	2,335,504	0.0064	0.9936	94.93
11.5	373,867,600	1,920,521	0.0051	0.9949	94.31
12.5	349,005,916	2,016,858	0.0058	0.9942	93.83
13.5	344,208,582	1,317,462	0.0038	0.9962	93.29
14.5	327,239,241	1,926,689	0.0059	0.9941	92.93
15.5	325,745,170	1,938,585	0.0060	0.9940	92.38
16.5	317,856,806	3,137,060	0.0099	0.9901	91.83
17.5	308,812,164	3,059,437	0.0099	0.9901	90.93
18.5	306,112,831	1,842,816	0.0060	0.9940	90.03
19.5	302,877,415	1,933,571	0.0064	0.9936	89.48
20.5	299,467,182	3,434,791	0.0115	0.9885	88.91
21.5	290,879,808	1,731,542	0.0060	0.9940	87.89
22.5	275,127,320	5,421,966	0.0197	0.9803	87.37
23.5	267,153,689	2,594,398	0.0097	0.9903	85.65
24.5	246,458,982	5,096,721	0.0207	0.9793	84.82
25.5	239,034,176	10,729,074	0.0449	0.9551	83.06
26.5	223,424,565	4,215,995	0.0189	0.9811	79.33
27.5	192,765,849	3,435,721	0.0178	0.9822	77.84
28.5	193,356,777	6,320,775	0.0327	0.9673	76.45
29.5	172,298,362	5,690,642	0.0330	0.9670	73.95
30.5	156,594,403	7,141,206	0.0456	0.9544	71.51
31.5	81,135,133	4,003,543	0.0493	0.9507	68.25
32.5	69,654,665	3,397,049	0.0488	0.9512	64.88
33.5	56,289,641	825,782	0.0147	0.9853	61.72
34.5	53,016,895	906,691	0.0171	0.9829	60.81
35.5	48,951,484	1,028,550	0.0210	0.9790	59.77
36.5	46,584,657	440,281	0.0095	0.9905	58.51
37.5	41,318,285	1,675,959	0.0406	0.9594	57.96
38.5	35,140,156	3,295,333	0.0938	0.9062	55.61

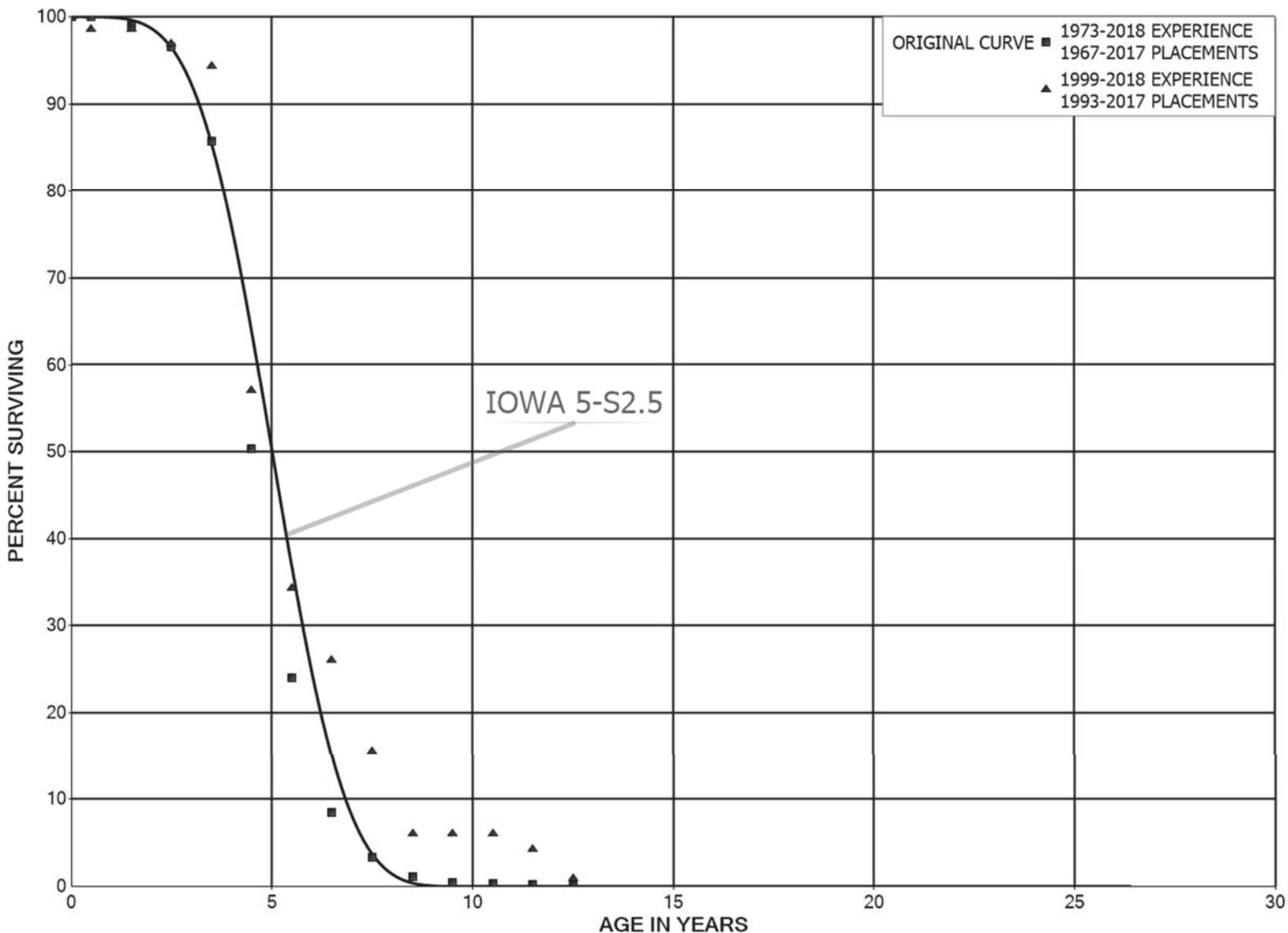
DUKE ENERGY CAROLINAS

ACCOUNT 390 STRUCTURES AND IMPROVEMENTS

ORIGINAL LIFE TABLE, CONT.

PLACEMENT BAND 1956-2018			EXPERIENCE BAND 1989-2018		
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
39.5	30,377,662	2,153,596	0.0709	0.9291	50.40
40.5	27,885,089	2,073,479	0.0744	0.9256	46.82
41.5	11,233,211	521,969	0.0465	0.9535	43.34
42.5	10,701,134	710,623	0.0664	0.9336	41.33
43.5	6,419,691	181,490	0.0283	0.9717	38.58
44.5	2,864,770	401,808	0.1403	0.8597	37.49
45.5	2,164,401	81,588	0.0377	0.9623	32.23
46.5	1,955,233	33,386	0.0171	0.9829	31.02
47.5	1,585,573	22,552	0.0142	0.9858	30.49
48.5	1,515,691	36,978	0.0244	0.9756	30.06
49.5	1,024,948	20,025	0.0195	0.9805	29.32
50.5	929,578	10,091	0.0109	0.9891	28.75
51.5	912,412	20,111	0.0220	0.9780	28.44
52.5	868,561	80,270	0.0924	0.9076	27.81
53.5	787,840	32,392	0.0411	0.9589	25.24
54.5	742,473	14,916	0.0201	0.9799	24.20
55.5	631,893	76,968	0.1218	0.8782	23.72
56.5	217,437	2,472	0.0114	0.9886	20.83
57.5	192,773	21,089	0.1094	0.8906	20.59
58.5	7,655		0.0000	1.0000	18.34
59.5	7,655	168	0.0219	0.9781	18.34
60.5	6,234		0.0000	1.0000	17.94
61.5	6,234	1,142	0.1831	0.8169	17.94
62.5					14.65

DUKE ENERGY CAROLINAS
ACCOUNT 392.1 TRANSPORTATION EQUIPMENT - PASSENGER CARS AND STATION WAGONS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 392.1 TRANSPORTATION EQUIPMENT - PASSENGER CARS AND STATION WAGONS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1967-2017		EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	24,838,808	24,116	0.0010	0.9990	100.00
0.5	24,822,783	239,487	0.0096	0.9904	99.90
1.5	24,533,349	611,926	0.0249	0.9751	98.94
2.5	23,896,179	2,671,263	0.1118	0.8882	96.47
3.5	21,542,516	8,890,638	0.4127	0.5873	85.69
4.5	12,636,166	6,624,792	0.5243	0.4757	50.32
5.5	6,016,478	3,910,037	0.6499	0.3501	23.94
6.5	2,099,942	1,268,745	0.6042	0.3958	8.38
7.5	946,517	643,446	0.6798	0.3202	3.32
8.5	361,967	211,072	0.5831	0.4169	1.06
9.5	171,470	59,825	0.3489	0.6511	0.44
10.5	119,844	35,323	0.2947	0.7053	0.29
11.5	60,582	36,323	0.5996	0.4004	0.20
12.5	21,146	13,088	0.6189	0.3811	0.08
13.5	15,330		0.0000	1.0000	0.03
14.5	19,156	3,826	0.1997	0.8003	0.03
15.5	15,330		0.0000	1.0000	0.02
16.5	15,330		0.0000	1.0000	0.02
17.5	15,330		0.0000	1.0000	0.02
18.5	15,330	7,272	0.4744	0.5256	0.02
19.5	8,058		0.0000	1.0000	0.01
20.5	8,058		0.0000	1.0000	0.01
21.5	8,058		0.0000	1.0000	0.01
22.5	8,058		0.0000	1.0000	0.01
23.5	1		0.0000	1.0000	0.01
24.5					0.01

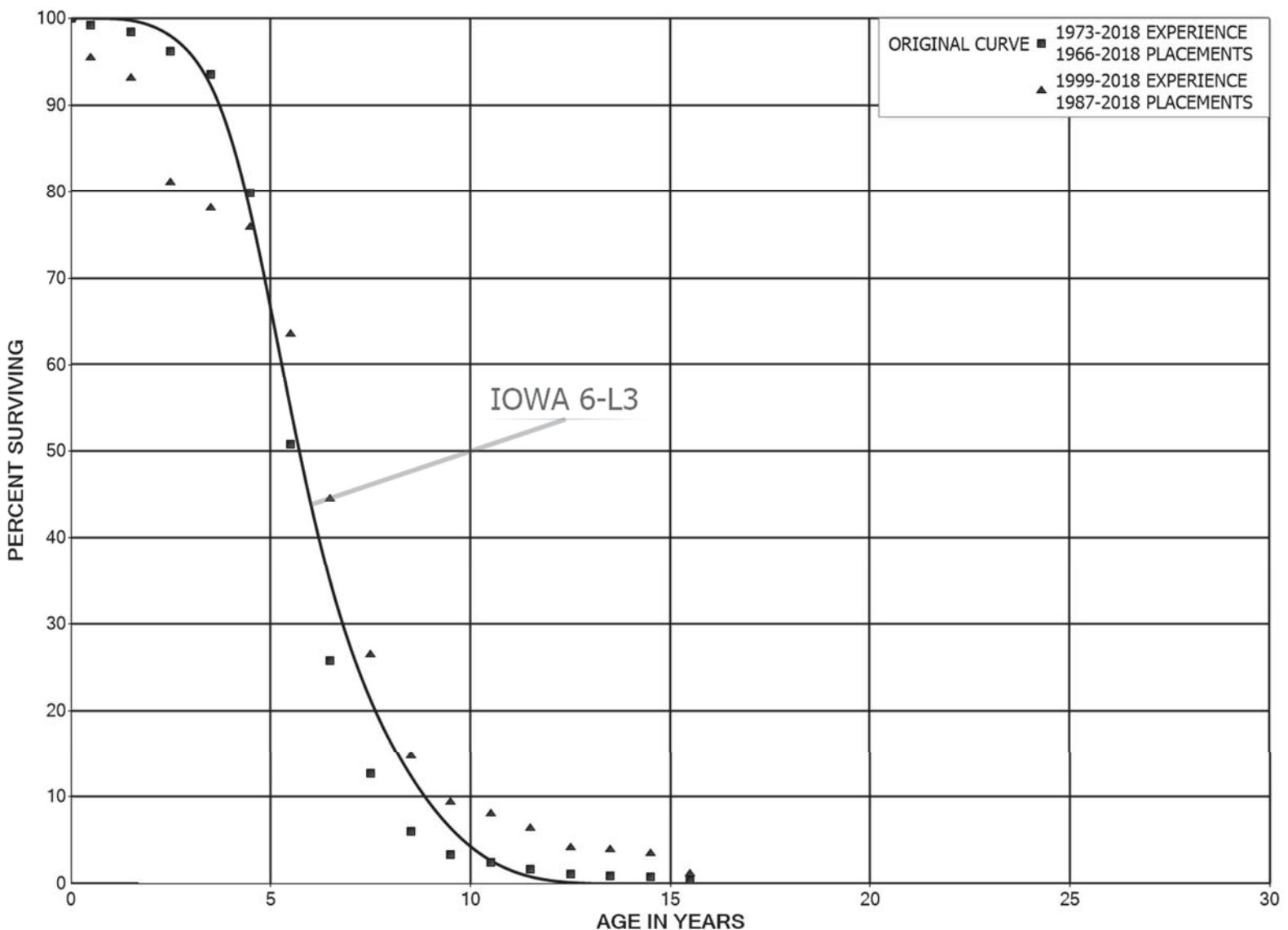
DUKE ENERGY CAROLINAS

ACCOUNT 392.1 TRANSPORTATION EQUIPMENT - PASSENGER CARS AND STATION WAGONS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1993-2017		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	1,002,670	15,182	0.0151	0.9849	100.00
0.5	915,765		0.0000	1.0000	98.49
1.5	890,657	15,324	0.0172	0.9828	98.49
2.5	875,333	22,437	0.0256	0.9744	96.79
3.5	860,953	341,022	0.3961	0.6039	94.31
4.5	519,932	207,780	0.3996	0.6004	56.95
5.5	338,452	81,997	0.2423	0.7577	34.19
6.5	256,455	102,832	0.4010	0.5990	25.91
7.5	153,623	94,322	0.6140	0.3860	15.52
8.5	59,301		0.0000	1.0000	5.99
9.5	59,301		0.0000	1.0000	5.99
10.5	59,301	17,705	0.2986	0.7014	5.99
11.5	41,596	33,538	0.8063	0.1937	4.20
12.5	8,058		0.0000	1.0000	0.81
13.5	8,058		0.0000	1.0000	0.81
14.5	8,058		0.0000	1.0000	0.81
15.5	8,058		0.0000	1.0000	0.81
16.5	8,058		0.0000	1.0000	0.81
17.5	8,058		0.0000	1.0000	0.81
18.5	8,058		0.0000	1.0000	0.81
19.5	8,058		0.0000	1.0000	0.81
20.5	8,058		0.0000	1.0000	0.81
21.5	8,058		0.0000	1.0000	0.81
22.5	8,058		0.0000	1.0000	0.81
23.5	1		0.0000	1.0000	0.81
24.5					0.81

DUKE ENERGY CAROLINAS
ACCOUNT 392.11 TRANSPORTATION EQUIPMENT - LIGHT TRUCKS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 392.11 TRANSPORTATION EQUIPMENT - LIGHT TRUCKS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1966-2018		EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	61,592,781	488,576	0.0079	0.9921	100.00
0.5	60,846,787	490,679	0.0081	0.9919	99.21
1.5	57,985,285	1,299,663	0.0224	0.9776	98.41
2.5	56,686,303	1,601,758	0.0283	0.9717	96.20
3.5	55,460,658	8,109,531	0.1462	0.8538	93.48
4.5	47,354,811	17,280,995	0.3649	0.6351	79.81
5.5	30,088,560	14,839,970	0.4932	0.5068	50.69
6.5	15,244,157	7,772,253	0.5099	0.4901	25.69
7.5	7,501,105	3,935,070	0.5246	0.4754	12.59
8.5	3,733,217	1,685,108	0.4514	0.5486	5.99
9.5	2,104,252	604,638	0.2873	0.7127	3.28
10.5	1,535,327	477,725	0.3112	0.6888	2.34
11.5	1,073,213	390,567	0.3639	0.6361	1.61
12.5	679,882	120,790	0.1777	0.8223	1.03
13.5	406,268	61,252	0.1508	0.8492	0.84
14.5	338,426	222,139	0.6564	0.3436	0.72
15.5	112,345	75,430	0.6714	0.3286	0.25
16.5	37,506		0.0000	1.0000	0.08
17.5	37,506	3,069	0.0818	0.9182	0.08
18.5	28,360		0.0000	1.0000	0.07
19.5	28,360	2,210	0.0779	0.9221	0.07
20.5	26,150	2,643	0.1011	0.8989	0.07
21.5	20,193		0.0000	1.0000	0.06
22.5	20,193		0.0000	1.0000	0.06
23.5	20,193		0.0000	1.0000	0.06
24.5	20,193		0.0000	1.0000	0.06
25.5	20,193		0.0000	1.0000	0.06
26.5	20,193		0.0000	1.0000	0.06
27.5	20,193	1	0.0000	1.0000	0.06
28.5	20,192		0.0000	1.0000	0.06
29.5					0.06

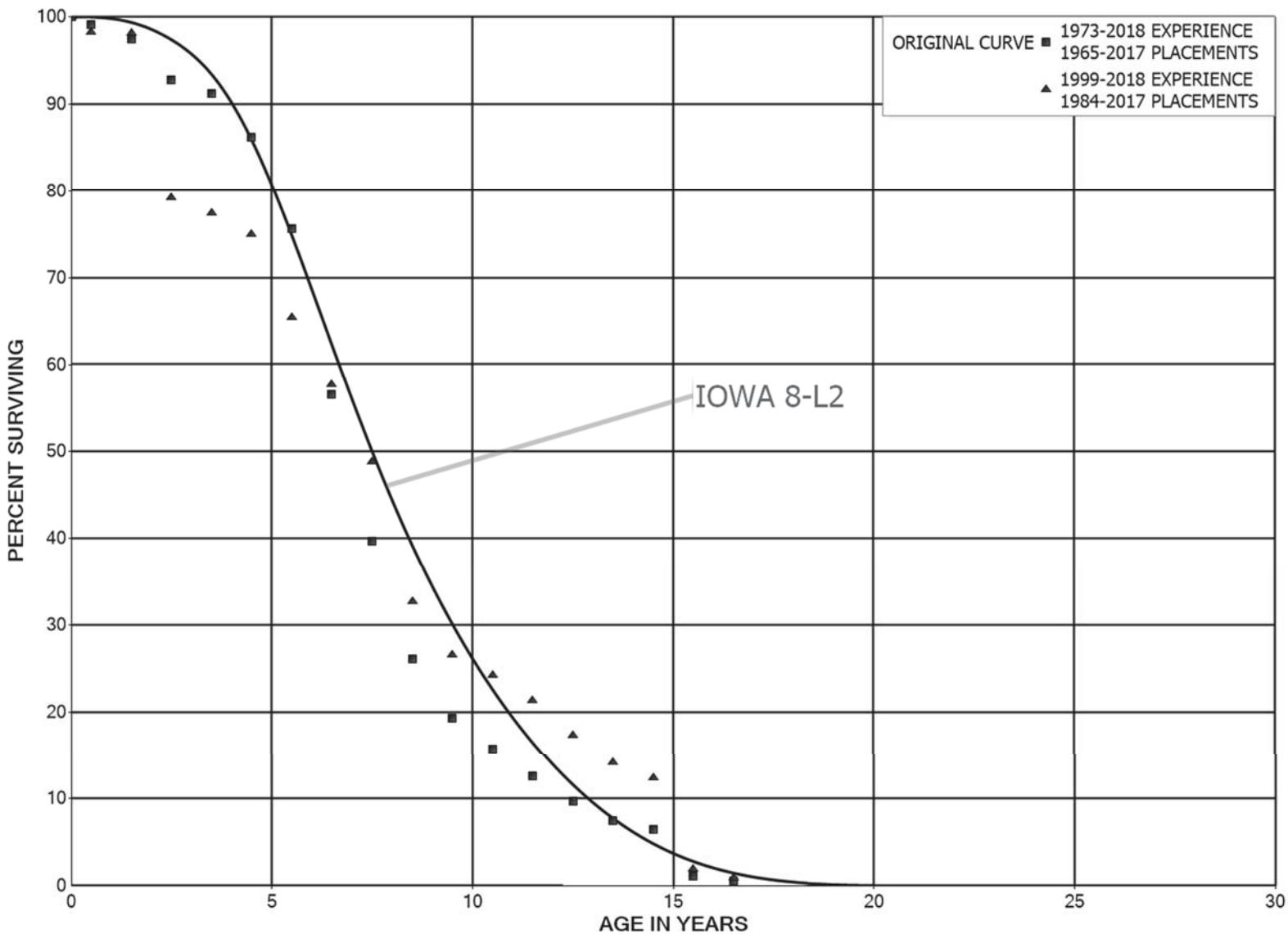
DUKE ENERGY CAROLINAS

ACCOUNT 392.11 TRANSPORTATION EQUIPMENT - LIGHT TRUCKS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1987-2018		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	10,101,804	468,315	0.0464	0.9536	100.00
0.5	9,671,141	228,274	0.0236	0.9764	95.36
1.5	7,552,569	977,595	0.1294	0.8706	93.11
2.5	6,799,543	248,339	0.0365	0.9635	81.06
3.5	6,602,531	194,484	0.0295	0.9705	78.10
4.5	6,453,456	1,047,227	0.1623	0.8377	75.80
5.5	6,889,750	2,073,981	0.3010	0.6990	63.50
6.5	5,131,214	2,081,468	0.4056	0.5944	44.38
7.5	3,181,692	1,419,582	0.4462	0.5538	26.38
8.5	1,814,512	658,751	0.3630	0.6370	14.61
9.5	1,175,954	165,796	0.1410	0.8590	9.31
10.5	976,443	214,108	0.2193	0.7807	7.99
11.5	781,385	272,390	0.3486	0.6514	6.24
12.5	508,995	32,095	0.0631	0.9369	4.07
13.5	324,076	38,529	0.1189	0.8811	3.81
14.5	279,124	193,794	0.6943	0.3057	3.36
15.5	85,330	65,137	0.7634	0.2366	1.03
16.5	20,193		0.0000	1.0000	0.24
17.5	20,193		0.0000	1.0000	0.24
18.5	20,193		0.0000	1.0000	0.24
19.5	20,193		0.0000	1.0000	0.24
20.5	20,193		0.0000	1.0000	0.24
21.5	20,193		0.0000	1.0000	0.24
22.5	20,193		0.0000	1.0000	0.24
23.5	20,193		0.0000	1.0000	0.24
24.5	20,193		0.0000	1.0000	0.24
25.5	20,193		0.0000	1.0000	0.24
26.5	20,193		0.0000	1.0000	0.24
27.5	20,193	1	0.0000	1.0000	0.24
28.5	20,192		0.0000	1.0000	0.24
29.5					0.24

DUKE ENERGY CAROLINAS
ACCOUNT 392.12 TRANSPORTATION EQUIPMENT - MEDIUM TRUCKS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 392.12 TRANSPORTATION EQUIPMENT - MEDIUM TRUCKS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1965-2017		EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	14,505,882	138,743	0.0096	0.9904	100.00
0.5	14,093,353	231,066	0.0164	0.9836	99.04
1.5	13,388,444	646,232	0.0483	0.9517	97.42
2.5	12,828,352	214,848	0.0167	0.9833	92.72
3.5	12,785,831	702,898	0.0550	0.9450	91.16
4.5	12,035,547	1,474,194	0.1225	0.8775	86.15
5.5	10,574,858	2,670,611	0.2525	0.7475	75.60
6.5	7,859,119	2,352,770	0.2994	0.7006	56.51
7.5	5,575,352	1,911,567	0.3429	0.6571	39.59
8.5	3,711,966	966,718	0.2604	0.7396	26.02
9.5	2,767,622	510,132	0.1843	0.8157	19.24
10.5	2,268,925	462,438	0.2038	0.7962	15.69
11.5	1,872,486	427,502	0.2283	0.7717	12.50
12.5	1,445,050	332,467	0.2301	0.7699	9.64
13.5	1,115,500	149,190	0.1337	0.8663	7.42
14.5	975,371	821,173	0.8419	0.1581	6.43
15.5	174,920	80,407	0.4597	0.5403	1.02
16.5	98,830	15,804	0.1599	0.8401	0.55
17.5	83,026	36,664	0.4416	0.5584	0.46
18.5	46,362	7,715	0.1664	0.8336	0.26
19.5	38,647	3,248	0.0840	0.9160	0.21
20.5	35,399		0.0000	1.0000	0.20
21.5	35,399	1	0.0000	1.0000	0.20
22.5	35,398		0.0000	1.0000	0.20
23.5	35,398		0.0000	1.0000	0.20
24.5	35,398		0.0000	1.0000	0.20
25.5	35,398		0.0000	1.0000	0.20
26.5	35,398	20,193	0.5705	0.4295	0.20
27.5	15,205		0.0000	1.0000	0.08
28.5	15,205		0.0000	1.0000	0.08
29.5					0.08

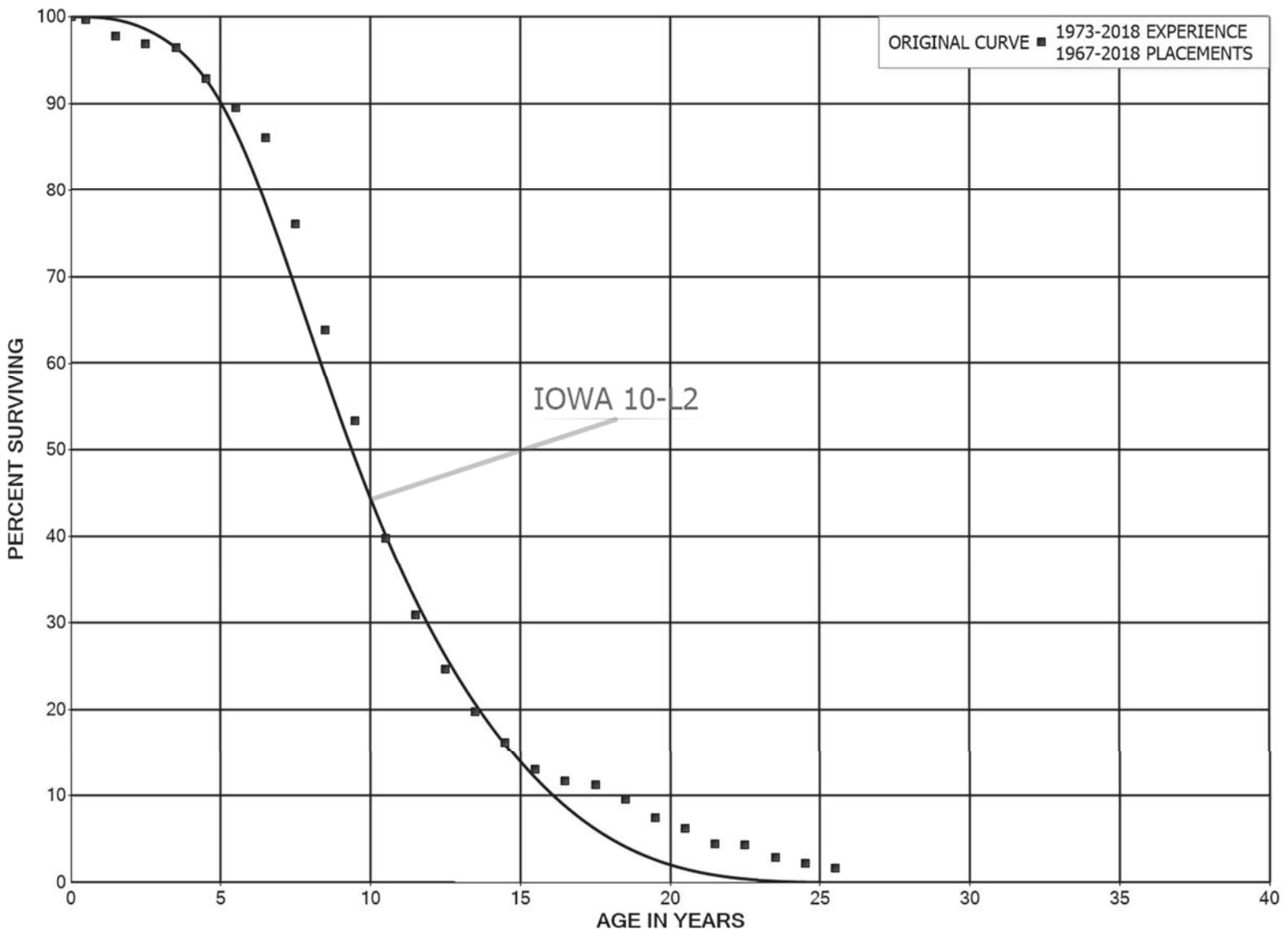
DUKE ENERGY CAROLINAS

ACCOUNT 392.12 TRANSPORTATION EQUIPMENT - MEDIUM TRUCKS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1984-2017		EXPERIENCE BAND 1999-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	3,117,742	56,941	0.0183	0.9817	100.00
0.5	3,276,169	4,662	0.0014	0.9986	98.17
1.5	3,181,319	612,284	0.1925	0.8075	98.03
2.5	2,755,326	60,818	0.0221	0.9779	79.17
3.5	2,837,234	89,830	0.0317	0.9683	77.42
4.5	2,818,777	358,231	0.1271	0.8729	74.97
5.5	2,951,783	353,103	0.1196	0.8804	65.44
6.5	2,884,683	446,997	0.1550	0.8450	57.61
7.5	2,685,729	885,407	0.3297	0.6703	48.68
8.5	1,926,267	362,989	0.1884	0.8116	32.63
9.5	1,756,617	155,690	0.0886	0.9114	26.48
10.5	1,731,272	203,387	0.1175	0.8825	24.14
11.5	1,569,465	293,244	0.1868	0.8132	21.30
12.5	1,286,800	244,939	0.1903	0.8097	17.32
13.5	1,041,861	131,093	0.1258	0.8742	14.02
14.5	901,750	769,671	0.8535	0.1465	12.26
15.5	132,079	67,309	0.5096	0.4904	1.80
16.5	64,770	8,936	0.1380	0.8620	0.88
17.5	55,834	20,435	0.3660	0.6340	0.76
18.5	35,399		0.0000	1.0000	0.48
19.5	35,399		0.0000	1.0000	0.48
20.5	35,399		0.0000	1.0000	0.48
21.5	35,399	1	0.0000	1.0000	0.48
22.5	35,398		0.0000	1.0000	0.48
23.5	35,398		0.0000	1.0000	0.48
24.5	35,398		0.0000	1.0000	0.48
25.5	35,398		0.0000	1.0000	0.48
26.5	35,398	20,193	0.5705	0.4295	0.48
27.5	15,205		0.0000	1.0000	0.21
28.5	15,205		0.0000	1.0000	0.21
29.5					0.21

DUKE ENERGY CAROLINAS
ACCOUNT 392.13 TRANSPORTATION EQUIPMENT - HEAVY TRUCKS
ORIGINAL AND SMOOTH SURVIVOR CURVES



DUKE ENERGY CAROLINAS

ACCOUNT 392.13 TRANSPORTATION EQUIPMENT - HEAVY TRUCKS

ORIGINAL LIFE TABLE

PLACEMENT BAND 1967-2018		EXPERIENCE BAND 1973-2018			
AGE AT BEGIN OF INTERVAL	EXPOSURES AT BEGINNING OF AGE INTERVAL	RETIREMENTS DURING AGE INTERVAL	RETMT RATIO	SURV RATIO	PCT SURV BEGIN OF INTERVAL
0.0	12,584,401	49,893	0.0040	0.9960	100.00
0.5	12,311,359	235,037	0.0191	0.9809	99.60
1.5	11,781,779	111,147	0.0094	0.9906	97.70
2.5	11,690,195	44,107	0.0038	0.9962	96.78
3.5	11,728,363	432,028	0.0368	0.9632	96.42
4.5	11,338,170	407,648	0.0360	0.9640	92.86
5.5	11,031,700	431,449	0.0391	0.9609	89.52
6.5	10,625,955	1,228,365	0.1156	0.8844	86.02
7.5	9,484,125	1,523,672	0.1607	0.8393	76.08
8.5	8,156,552	1,347,367	0.1652	0.8348	63.86
9.5	6,916,387	1,768,709	0.2557	0.7443	53.31
10.5	5,264,227	1,166,260	0.2215	0.7785	39.68
11.5	4,162,814	838,569	0.2014	0.7986	30.89
12.5	3,326,002	671,147	0.2018	0.7982	24.66
13.5	2,667,836	473,684	0.1776	0.8224	19.69
14.5	2,213,955	436,208	0.1970	0.8030	16.19
15.5	1,765,644	182,067	0.1031	0.8969	13.00
16.5	1,583,577	68,020	0.0430	0.9570	11.66
17.5	1,515,557	228,437	0.1507	0.8493	11.16
18.5	981,979	219,481	0.2235	0.7765	9.48
19.5	402,624	64,959	0.1613	0.8387	7.36
20.5	305,010	85,206	0.2794	0.7206	6.17
21.5	219,804	7,084	0.0322	0.9678	4.45
22.5	212,720	73,271	0.3444	0.6556	4.30
23.5	154,016	34,797	0.2259	0.7741	2.82
24.5	119,219	30,176	0.2531	0.7469	2.18
25.5	48,365	33,798	0.6988	0.3012	1.63
26.5	14,567		0.0000	1.0000	0.49
27.5	14,567		0.0000	1.0000	0.49
28.5	14,567		0.0000	1.0000	0.49
29.5	14,567		0.0000	1.0000	0.49
30.5	14,567	14,567	1.0000		0.49
31.5					